

Lys Ile Met Asn His Lys Asn Ser Leu Thr Phe Pro Asp Asp Asn Asp  
 290 295 300  
 Ile Ser Lys Glu Ala Lys Asn Leu Ile Cys Ala Phe Leu Thr Asp Arg  
 305 310 315 320  
 Glu Val Arg Leu Gly Arg Asn Gly Val Glu Glu Ile Lys Arg His Leu  
 325 330 335  
 Phe Phe Lys Asn Asp Gln Trp Ala Trp Glu Thr Leu Arg Asp Thr Val  
 340 345 350  
 Ala Pro Val Val Pro Asp Leu Ser Ser Asp Ile Asp Thr Ser Asn Phe  
 355 360 365  
 Asp Asp Leu Glu Glu Asp Lys Gly Glu Glu Glu Thr Phe Pro Ile Pro  
 370 375 380  
 Lys Ala Phe Val Gly Asn Gln Leu Pro Phe Val Gly Phe Thr Tyr Tyr  
 385 390 395 400  
 Ser Asn Arg Arg Tyr Leu Ser Ser Ala Asn Pro Asn Asp Asn Arg Thr  
 405 410 415  
 Ser Ser Asn Ala Asp Lys Ser Leu Gln Glu Ser Leu Gln Lys Thr Ile  
 420 425 430  
 Tyr Lys Leu Glu Glu Gln Leu His Asn Glu Met Gln Leu Lys Asp Glu  
 435 440 445  
 Met Glu Gln Lys Cys Arg Thr Ser Asn Ile Lys Leu Asp Lys Ile Met  
 450 455 460  
 Lys Glu Leu Asp Glu Glu Gly Asn Gln Arg Arg Asn Leu Glu Ser Thr  
 465 470 475 480  
 Val Ser Gln Ile Glu Lys Glu Lys Met Leu Leu Gln His Arg Ile Asn  
 485 490 495  
 Glu Tyr Gln Arg Lys Ala Glu Gln Glu Asn Glu Lys Arg Arg Asn Val  
 500 505 510  
 Glu Asn Glu Val Ser Thr Leu Lys Asp Gln Leu Glu Asp Leu Lys Lys  
 515 520 525  
 Val Ser Gln Asn Ser Gln Leu Ala Asn Glu Lys Leu Ser Gln Leu Gln  
 530 535 540  
 Lys Gln Leu Glu Glu Ala Asn Asp Leu Leu Arg Thr Glu Ser Asp Thr  
 545 550 555 560  
 Ala Val Arg Leu Arg Lys Ser His Thr Glu Met Ser Lys Ser Ile Ser  
 565 570 575  
 Gln Leu Glu Ser Leu Asn Arg Glu Leu Gln Glu Arg Asn Arg Ile Leu  
 580 585 590  
 Glu Asn Ser Lys Ser Gln Thr Asp Lys Asp Tyr Tyr Gln Leu Gln Ala  
 595 600 605  
 Ile Leu Glu Ala Glu Arg Arg Asp Arg Gly His Asp Ser Glu Met Ile  
 610 615 620  
 Gly Asp Leu Gln Ala Arg Ile Thr Ser Leu Gln Glu Glu Val Lys His  
 625 630 635 640  
 Leu Lys His Asn Leu Glu Lys Val Glu Gly Glu Arg Lys Glu Ala Gln  
 645 650 655  
 Asp Met Leu Asn His Ser Glu Lys Glu Lys Asn Asn Leu Glu Ile Asp  
 660 665 670  
 Leu Asn Tyr Lys Leu Lys Ser Leu Gln Gln Arg Leu Glu Gln Glu Val  
 675 680 685  
 Asn Glu His Lys Val Thr Lys Ala Arg Leu Thr Asp Lys His Gln Ser  
 690 695 700  
 Ile Glu Glu Ala Lys Ser Val Ala Met Cys Glu Met Glu Lys Lys Leu  
 705 710 715 720  
 Lys Glu Glu Arg Glu Ala Arg Glu Lys Ala Glu Asn Arg Val Val Gln

				725						730					735
Ile	Glu	Lys	Gln	Cys	Ser	Met	Leu	Asp	Val	Asp	Leu	Lys	Gln	Ser	Gln
				740											
Gln	Lys	Leu	Glu	His	Leu	Thr	Gly	Asn	Lys	Glu	Arg	Met	Glu	Asp	Glu
				755											
Val	Lys	Asn	Leu	Thr	Leu	Gln	Leu	Glu	Gln	Glu	Ser	Asn	Lys	Arg	Leu
				770											
Leu	Leu	Gln	Asn	Glu	Leu	Lys	Thr	Gln	Ala	Phe	Glu	Ala	Asp	Asn	Leu
785															
Lys	Gly	Leu	Glu	Lys	Gln	Met	Lys	Gln	Glu	Ile	Asn	Thr	Leu	Leu	Glu
				805											
Ala	Lys	Arg	Leu	Leu	Glu	Phe	Glu	Leu	Ala	Gln	Leu	Thr	Lys	Gln	Tyr
				820											
Arg	Gly	Asn	Glu	Gly	Gln	Met	Arg	Glu	Leu	Gln	Asp	Gln	Leu	Glu	Ala
				835											
Glu	Gln	Tyr	Phe	Ser	Thr	Leu	Tyr	Lys	Thr	Gln	Val	Lys	Glu	Leu	Lys
				850											
Glu	Glu	Ile	Glu	Glu	Lys	Asn	Arg	Glu	Asn	Leu	Lys	Lys	Ile	Gln	Glu
865															
Leu	Gln	Asn	Glu	Lys	Glu	Thr	Leu	Ala	Thr	Gln	Leu	Asp	Leu	Ala	Glu
				885											
Thr	Lys	Ala	Glu	Ser	Glu	Gln	Leu	Ala	Arg	Gly	Leu	Leu	Glu	Glu	Gln
				900											
Tyr	Phe	Glu	Leu	Thr	Gln	Glu	Ser	Lys	Lys	Ala	Ala	Ser	Arg	Asn	Arg
				915											
Gln	Glu	Ile	Thr	Asp	Lys	Asp	His	Thr	Val	Ser	Arg	Leu	Glu	Glu	Ala
				930											
Asn	Ser	Met	Leu	Thr	Lys	Asp	Ile	Glu	Ile	Leu	Arg	Arg	Glu	Asn	Glu
945															
Glu	Leu	Thr	Glu	Lys	Met	Lys	Lys	Ala	Glu	Glu	Glu	Tyr	Lys	Leu	Glu
				965											
Lys	Glu	Glu	Glu	Ile	Ser	Asn	Leu	Lys	Ala	Ala	Phe	Glu	Lys	Asn	Ile
				980											
Asn	Thr	Glu	Arg	Thr	Leu	Lys	Thr	Gln	Ala	Val	Asn	Lys	Leu	Ala	Glu
				995											
Ile	Met	Asn	Arg	Lys	Asp	Phe	Lys	Ile	Asp	Arg	Lys	Lys	Ala	Asn	Thr
				1010											
Gln	Asp	Leu	Arg	Lys	Lys	Glu	Lys	Glu	Asn	Arg	Lys	Leu	Gln	Leu	Glu
1025															
Leu	Asn	Gln	Glu	Arg	Glu	Lys	Phe	Asn	Gln	Met	Val	Val	Lys	His	Gln
				1045											
Lys	Glu	Leu	Asn	Asp	Met	Gln	Ala	Gln	Leu	Val	Glu	Glu	Cys	Ala	His
				1060											
Arg	Asn	Glu	Leu	Gln	Met	Gln	Leu	Ala	Ser	Lys	Glu	Ser	Asp	Ile	Glu
				1075											
Gln	Leu	Arg	Ala	Lys	Leu	Leu	Asp	Leu	Ser	Asp	Ser	Thr	Ser	Val	Ala

Asp Ile Asp Lys Leu Phe His Val Arg Pro Val Thr Gln Gly Asp Val  
 1170 1175 1180  
 Tyr Arg Ala Glu Thr Glu Glu Ile Pro Lys Ile Phe Gln Ile Leu Tyr  
 1185 1190 1195 120  
 Ala Asn Glu Gly Glu Cys Arg Lys Asp Val Glu Met Glu Pro Val Gln  
 1205 1210 1215  
 Gln Ala Glu Lys Thr Asn Phe Gln Asn His Lys Gly His Glu Phe Ile  
 1220 1225 1230  
 Pro Thr Leu Tyr His Phe Pro Ala Asn Cys Asp Ala Cys Ala Lys Pro  
 1235 1240 1245  
 Leu Trp His Val Phe Lys Pro Pro Ala Leu Glu Cys Arg Arg Cys  
 1250 1255 1260  
 His Val Lys Cys His Arg Asp His Leu Asp Lys Lys Glu Asp Leu Ile  
 1265 1270 1275 128  
 Cys Pro Cys Lys Val Ser Tyr Asp Val Thr Ser Ala Arg Asp Met Leu  
 1285 1290 1295  
 Leu Leu Ala Cys Ser Gln Asp Glu Gln Lys Lys Trp Val Thr His Leu  
 1300 1305 1310  
 Val Lys Lys Ile Pro Lys Asn Pro Pro Ser Gly Phe Val Arg Ala Ser  
 1315 1320 1325  
 Pro Arg Thr Leu Ser Thr Arg Ser Thr Ala Asn Gln Ser Phe Arg Lys  
 1330 1335 1340  
 Val Val Lys Asn Thr Ser Gly Lys Thr Ser  
 1345 1350

<210> 159  
 <211> 683  
 <212> DNA  
 <213> Homo Sapiens

<400> 159  
 acaagctgga gttcgagcct gacagtgagg acaagatctc ggactgtgag gaaggattga 60  
 gtaatgtggc acttgaatgc agtgagccaa gcacaagtgt atctgtttat gaccagttga 120  
 aggcacgggc atccccctgtt gctggaaacc cacctgggac cccaaagggg aagagagagc 180  
 tgatgagcaa tggcccaggt tccattattg gtgctaaagc tgggaagaat tctggcaaaa 240  
 agaagggcct taacaatgaa ctgaacaacc ttccagtaat ctccaacatg acggctgctg 300  
 tagacagttg ctcggcagca gacggcagtt tggctgctga gatgcctaaa ctggaagcag 360  
 aaggattaat tgacaagaaa aatttaggag ataaagaaaa gggcaaaaaa gctaacaact 420  
 gcaaaacgga caaaaacctc tctaaactga aaagtgcccg gccattgcc cctgccccag 480  
 cccctactcc cccgcagcta atcgctatac ccactgcaac ctttacaacg accaccactg 540  
 ggacaatacc cggactgccc tccctcacaa caactgttgt tcaggctaca ccaaagagtc 600  
 ctccgttaaa acccattcaa ccaaagccca caattatggg agagcccatc accgtgaacc 660  
 cagctctggt gtcactcaaa gac 683

<210> 160  
 <211> 227  
 <212> PRT  
 <213> Homo Sapiens

<400> 160  
 Lys Leu Glu Phe Glu Pro Asp Ser Glu Asp Lys Ile Ser Asp Cys Glu  
 1 5 10 15  
 Glu Gly Leu Ser Asn Val Ala Leu Glu Cys Ser Glu Pro Ser Thr Ser  
 20 25 30  
 Val Ser Ala Tyr Asp Gln Leu Lys Ala Pro Ala Ser Pro Gly Ala Gly

```

      35              40              45
Asn Pro Pro Gly Thr Pro Lys Gly Lys Arg Glu Leu Met Ser Asn Gly
  50              55              60
Pro Gly Ser Ile Ile Gly Ala Lys Ala Gly Lys Asn Ser Gly Lys Lys
  65              70              75              80
Lys Gly Leu Asn Asn Glu Leu Asn Asn Leu Pro Val Ile Ser Asn Met
      85              90              95
Thr Ala Ala Leu Asp Ser Cys Ser Ala Ala Asp Gly Ser Leu Ala Ala
      100              105              110
Glu Met Pro Lys Leu Glu Ala Glu Gly Leu Ile Asp Lys Lys Asn Leu
      115              120              125
Gly Asp Lys Glu Lys Gly Lys Lys Ala Asn Asn Cys Lys Thr Asp Lys
      130              135              140
Asn Leu Ser Lys Leu Lys Ser Ala Arg Pro Ile Ala Pro Ala Pro Ala
      145              150              155              160
Pro Thr Pro Pro Gln Leu Ile Ala Ile Pro Thr Ala Thr Phe Thr Thr
      165              170              175
Thr Thr Thr Gly Thr Ile Pro Gly Leu Pro Ser Leu Thr Thr Thr Val
      180              185              190
Val Gln Ala Thr Pro Lys Ser Pro Pro Leu Lys Pro Ile Gln Pro Lys
      195              200              205
Pro Thr Ile Met Gly Glu Pro Ile Thr Val Asn Pro Ala Leu Val Ser
      210              215              220
Leu Lys Asp
225

```

```

<210> 161
<211> 662
<212> DNA
<213> Homo Sapiens

```

```

<400> 161
accacacagca gttgcacttg ctgagcaggc agcttgagga cccaaatggt agcttttcta      60
acgctgagat gagtgaactg agtgtggcac agaaaccaga aaaacttttg gagcgctgca      120
agtactggcc tgcttgtaaa aatggggatg agtgtgccta ccatcaccac atctcaccct      180
gcaaagcctt cccaattgt aaatttgctg aaaaatgttt gtttggtcac ccaaattgta      240
aatatgatgc aaagtgtact aaaccagatt gtcccttcac tcatgtgagt agaagaattc      300
cagtactgtc tccaaaacca gttgcaccac cagcaccacc ttccagtagt cagctctgcc      360
gttacttccc tgcttgtaag aagatggaat gtccttcta tcatccaaaa cattgtaggt      420
ttaacactca atgtacaaga ccggactgca cattctacca tcccaccatt aatgtcccac      480
cacgacatgc cttgaaatgg attcgaccto aaaccagcga atagcaccca gtcctgcctg      540
gcagaagatc atgcagtttg gaagttttca tgtctgatga aagatctcta cagaacttgt      600
caaactcttg aaacttgga tatattgctt tcataatatg aagggtttatt ggctatctaa      660
aa
662

```

```

<210> 162
<211> 173
<212> PRT
<213> Homo Sapiens

```

```

<400> 162
Pro Gln Gln Leu His Leu Leu Ser Arg Gln Leu Glu Asp Pro Asn Gly
  1              5              10              15
Ser Phe Ser Asn Ala Glu Met Ser Glu Leu Ser Val Ala Gln Lys Pro
      20              25              30

```



Glu Lys Leu Leu Glu Arg Cys Lys Tyr Trp Pro Ala Cys Lys Asn Gly  
 35 40 45  
 Asp Glu Cys Ala Tyr His His Pro Ile Ser Pro Cys Lys Ala Phe Pro  
 50 55 60  
 Asn Cys Lys Phe Ala Glu Lys Cys Leu Phe Val His Pro Asn Cys Lys  
 65 70 75 80  
 Tyr Asp Ala Lys Cys Thr Lys Pro Asp Cys Pro Phe Thr His Val Ser  
 85 90 95  
 Arg Arg Ile Pro Val Leu Ser Pro Lys Pro Val Ala Pro Pro Ala Pro  
 100 105 110  
 Pro Ser Ser Ser Gln Leu Cys Arg Tyr Phe Pro Ala Cys Lys Lys Met  
 115 120 125  
 Glu Cys Pro Phe Tyr His Pro Lys His Cys Arg Phe Asn Thr Gln Cys  
 130 135 140  
 Thr Arg Pro Asp Cys Thr Phe Tyr His Pro Thr Ile Asn Val Pro Pro  
 145 150 155 160  
 Arg His Ala Leu Lys Trp Ile Arg Pro Gln Thr Ser Glu  
 165 170

&lt;210&gt; 163

&lt;211&gt; 2912

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 163

cagttgcttc	agcgtcccgg	tgtggctgtg	ccgttggtcc	tgtgcgggtca	cttagccaag	60
atgcctgagg	aaacccagac	ccaagaccaa	ccgatggagg	aggaggaggt	tgagacgttc	120
gcctttcagg	cagaaattgc	ccagttgatg	tcattgatca	tcaatacttt	ctactcgaac	180
aaagagatct	ttctgagaga	gctcatttca	aattcatcag	atgcattgga	caaaatccgg	240
tatgaaactt	tgacagatcc	cagtaaatta	gactctggga	aagagctgca	tattaacctt	300
ataccgaaca	aacaagatcg	aactctcact	attgtggata	ctggaattgg	aatgaccaag	360
gctgacttga	tcaataacct	tggtactatc	gccaaagtctg	ggaccaaagc	gttcatggaa	420
gctttgcagg	ctgggtgcaga	tatctctatg	attggccagt	tcggtgttgg	tttttattct	480
gcttatttgg	ttgctgagaa	agtaactgtg	atcaccaaac	ataacgatga	tgagcagtac	540
gcttgggagt	cctcagcagg	gggatcattc	acagtgagga	cagacacagg	tgaacctatg	600
ggtcgtggaa	caaaagtatt	cctacacctg	aaagaagacc	aaactgagta	cttggaggaa	660
cgaagaataa	aggagattgt	gaagaaacat	tctcagttta	ttggatatcc	cattactctt	720
tttgtggaga	aggaacgtga	taaagaagta	agcgatgatg	aggctgaaga	aaaggaagac	780
aaagaagaag	aaaaagaaaa	agaagagaaa	gagtcggaag	acaaacctga	aattgaagat	840
gttggttctg	atgaggaaga	agaaaagaag	gatggtgaca	agaagaagaa	gaagaagatt	900
aaggaaaagt	acatcgatca	agaagagctc	aacaaaacaa	agcccatctg	gaccagaaat	960
cccgacgata	ttactaatga	ggagtacgga	gaattctata	agagcttgac	caatgactgg	1020
gaagatcact	tggcagtga	gcatttttca	gttgaaggac	agttggaatt	cagagccctt	1080
ctatttgtcc	cacgacgtgc	tccttttgat	ctgtttgaaa	acagaaagaa	aaagaacaat	1140
atcaaattgt	atgtacgcag	agttttcatc	atggataact	gtgaggagct	aatccctgaa	1200
tatctgaact	tcattagagg	ggtggttagac	tcggaggatc	tcctctaaa	catatcccg	1260
gagatgttgc	aacaaagcaa	aattttgaaa	gttatcagga	agaatttgg	caaaaaatgc	1320
ttagaactct	ttactgaact	ggcggaagat	aaagagaact	acaagaaatt	ctatgagcag	1380
ttctctaaaa	acataaagct	tggaatacac	gaagactctc	aaaatcgga	gaagctttca	1440
gagctggtta	ggtactacac	atctgcctct	ggtgatgaga	tggtttctct	caaggactac	1500
tgaccagaa	tgaaggagaa	ccagaaacat	atctattata	tcacagggtga	gaccaaggac	1560
caggtagcta	actcagcctt	tgtggaacgt	cttcggaaac	atggcttaga	agtgtatctat	1620
atgattgagc	ccattgatga	gtactgtgtc	caacagctga	aggaatttga	ggggaagact	1680
ttagtgtcag	tcaccaaaga	aggcctggaa	cttcagagg	atgaagaaga	gaaaaagaag	1740
caggaagaga	aaaaaacaaa	gtttgagaac	ctctgcaaaa	tcatgaaaga	catattggag	1800

```

aaaaaagttg aaaaggtggt tgtgtcaaac cgattgggtga catctccatg ctgtattgtc 1860
acaagcacat atggctggac agcaaacatg gagagaatca tgaaagctca agccctaaga 1920
gacaactcaa caatgggtta catggcagca aagaaacacc tggagataaa ccttgaccat 1980
tccattattg agaccttaag gcaaaaggca gaggctgata agaacgacaa gtctgtgaag 2040
gatctggtca tcttgcttta tgaaactgcg ctctgtctt ctggcttcag tctggaagat 2100
ccccagacac atgctaacag gatctacagg atgatcaaac ttggtctggg tattgatgaa 2160
gatgacccta ctgctgatga taccagtgtt gctgtaactg aagaaatgcc accccttgaa 2220
ggagatgacg acacatcacg catggaagaa gtagactaat ctctggctga gggatgactt 2280
acctgttcag tactctacaa ttcctctgat aatatatttt caaggatgtt tttctttatt 2340
tttgtaata ttaaaaagtc tgtatggcat gacaactact ttaaggggaa gataagattt 2400
ctgtctacta agtgatgtg tgatacctta ggactaaag cagagctagt aatgcttttt 2460
gagtttcatt ttggttcttt cacagatggg gtaacgtgca ctgtaagacg tatgtaacat 2520
gatgttaact ttgtgtggtc taaagtgttt agctgtcaag ccggatgcct aagtagacca 2580
aatcttggtt ttgaagtgtt ctgagctgta tcttgatgtt tagaaaagta ttcgttacct 2640
cttgtaggat ctactttttg aacttttcat tcctgtagt tgacaattct gcatgtacta 2700
gtcctctaga aataggttaa actgaagcaa cttgatggaa ggatctctcc acagggcttg 2760
ttttccaaag aaaagtattg tttggaggag caaagttaaa agcctaccta agcatatcgt 2820
aaagctgttc aaatactcga gccagtcct gtggatggaa atgtagtgct cgagtcacat 2880
tctgcttaaa gttgtaacaa atacagatga gt 2912

```

<210> 164

<211> 732

<212> PRT

<213> Homo Sapiens

<400> 164

```

Met Pro Glu Glu Thr Gln Thr Gln Asp Gln Pro Met Glu Glu Glu Glu
1          5          10          15
Val Glu Thr Phe Ala Phe Gln Ala Glu Ile Ala Gln Leu Met Ser Leu
20          25          30
Ile Ile Asn Thr Phe Tyr Ser Asn Lys Glu Ile Phe Leu Arg Glu Leu
35          40          45
Ile Ser Asn Ser Ser Asp Ala Leu Asp Lys Ile Arg Tyr Glu Thr Leu
50          55          60
Thr Asp Pro Ser Lys Leu Asp Ser Gly Lys Glu Leu His Ile Asn Leu
65          70          75          80
Ile Pro Asn Lys Gln Asp Arg Thr Leu Thr Ile Val Asp Thr Gly Ile
85          90          95
Gly Met Thr Lys Ala Asp Leu Ile Asn Asn Leu Gly Thr Ile Ala Lys
100         105         110
Ser Gly Thr Lys Ala Phe Met Glu Ala Leu Gln Ala Gly Ala Asp Ile
115         120         125
Ser Met Ile Gly Gln Phe Gly Val Gly Phe Tyr Ser Ala Tyr Leu Val
130         135         140
Ala Glu Lys Val Thr Val Ile Thr Lys His Asn Asp Asp Glu Gln Tyr
145         150         155         160
Ala Trp Glu Ser Ser Ala Gly Gly Ser Phe Thr Val Arg Thr Asp Thr
165         170         175
Gly Glu Pro Met Gly Arg Gly Thr Lys Val Ile Leu His Leu Lys Glu
180         185         190
Asp Gln Thr Glu Tyr Leu Glu Glu Arg Arg Ile Lys Glu Ile Val Lys
195         200         205
Lys His Ser Gln Phe Ile Gly Tyr Pro Ile Thr Leu Phe Val Glu Lys
210         215         220
Glu Arg Asp Lys Glu Val Ser Asp Asp Glu Ala Glu Glu Lys Glu Asp

```

225		230		235		240
Lys	Glu	Glu	Glu	Lys	Glu	Lys
		245		250		255
Glu	Ile	Glu	Asp	Val	Gly	Ser
		260		265		270
Asp	Lys	Lys	Lys	Lys	Lys	Lys
		275		280		285
Glu	Leu	Asn	Lys	Thr	Lys	Pro
		290		295		300
Thr	Asn	Glu	Glu	Tyr	Gly	Glu
		305		310		315
Glu	Asp	His	Leu	Ala	Val	Lys
		325		330		335
Phe	Arg	Ala	Leu	Leu	Phe	Val
		340		345		350
Glu	Asn	Arg	Lys	Lys	Lys	Asn
		355		360		365
Phe	Ile	Met	Asp	Asn	Cys	Glu
		370		375		380
Ile	Arg	Gly	Val	Val	Asp	Ser
		385		390		395
Glu	Met	Leu	Gln	Gln	Ser	Lys
		405		410		415
Val	Lys	Lys	Cys	Leu	Glu	Leu
		420		425		430
Asn	Tyr	Lys	Lys	Phe	Tyr	Glu
		435		440		445
Ile	His	Glu	Asp	Ser	Gln	Asn
		450		455		460
Tyr	Tyr	Thr	Ser	Ala	Ser	Gly
		465		470		475
Cys	Thr	Arg	Met	Lys	Glu	Asn
		485		490		495
Glu	Thr	Lys	Asp	Gln	Val	Ala
		500		505		510
Lys	His	Gly	Leu	Glu	Val	Ile
		515		520		525
Cys	Val	Gln	Gln	Leu	Lys	Glu
		530		535		540
Thr	Lys	Glu	Gly	Leu	Glu	Leu
		545		550		555
Gln	Glu	Glu	Lys	Lys	Thr	Lys
		565		570		575
Asp	Ile	Leu	Glu	Lys	Lys	Val
		580		585		590
Val	Thr	Ser	Pro	Cys	Cys	Ile
		595		600		605
Asn	Met	Glu	Arg	Ile	Met	Lys
		610		615		620
Met	Gly	Tyr	Met	Ala	Ala	Lys
		625		630		635
Ser	Ile	Ile	Glu	Thr	Leu	Arg
		645		650		655
Lys	Ser	Val	Lys	Asp	Leu	Val
		660		665		670

Ser Ser Gly Phe Ser Leu Glu Asp Pro Gln Thr His Ala Asn Arg Ile  
675 680 685  
Tyr Arg Met Ile Lys Leu Gly Leu Gly Ile Asp Glu Asp Asp Pro Thr  
690 695 700  
Ala Asp Asp Thr Ser Ala Ala Val Thr Glu Glu Met Pro Pro Leu Glu  
705 710 715 720  
Gly Asp Asp Asp Thr Ser Arg Met Glu Glu Val Asp  
725 730

&lt;210&gt; 165

&lt;211&gt; 790

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 165

```

ccgactcaga aatggcggcc tccatgttct acggcaggct agtggccgtg gccacccttc      60
ggaaccaccg gcctcggacg gccagcggg ctgctgctca ggttctggga agttctggat      120
tgtttaataa ccatggactc caagtacagc agcaacagca aaggaatctc tcaactacatg      180
aatacatgag tatggaatta ttgcaagaag ctggtgtctc cgttcccaaa ggatatgtgg      240
caaagtcacc agatgaagct tatgcaattg caaaaaatt aggttcaaaa gatgtcgtga      300
taaaggcaca ggttttagct ggtggtagag gaaaaggaac atttgaaagt ggcctcaaag      360
gaggagtga gtagttttct tctccagaag aagcaaaagc tgtttcttca caaatgattg      420
ggaaaaaatt gtttaccag caaacgggag aaaagggcag aatatgcaat caagtattgg      480
tctgtgagcg aaaatatccc aggagagaat actactttgc aataacaatg gaaaggtcat      540
ttcaaggtcc tgtattaata ggaagttcac atggtggtgt caacattgaa gatgttgctg      600
ctgagtctcc tgaagcaata attaaagaac ctattgatat tgaagaaggc atcaaaaagg      660
aacaagctct tcagcttgca cagaagaatg ggatttcccc taatattgng ggaatcagca      720
gcaggaaaac atggtcaagc ttacagncn ttttcttgaa atacgatgca acccttgata      780
ggaaattaaa                                     790

```

&lt;210&gt; 166

&lt;211&gt; 259

&lt;212&gt; PRT

&lt;213&gt; Homo Sapiens

&lt;400&gt; 166

```

Asp Ser Glu Met Ala Ala Ser Met Phe Tyr Gly Arg Leu Val Ala Val
1      5      10      15
Ala Thr Leu Arg Asn His Arg Pro Arg Thr Ala Gln Arg Ala Ala Ala
20     25     30
Gln Val Leu Gly Ser Ser Gly Leu Phe Asn Asn His Gly Leu Gln Val
35     40     45
Gln Gln Gln Gln Gln Arg Asn Leu Ser Leu His Glu Tyr Met Ser Met
50     55     60
Glu Leu Leu Gln Glu Ala Gly Val Ser Val Pro Lys Gly Tyr Val Ala
65     70     75     80
Lys Ser Pro Asp Glu Ala Tyr Ala Ile Ala Lys Lys Leu Gly Ser Lys
85     90     95
Asp Val Val Ile Lys Ala Gln Val Leu Ala Gly Gly Arg Gly Lys Gly
100    105    110
Thr Phe Glu Ser Gly Leu Lys Gly Gly Val Lys Ile Val Phe Ser Pro
115    120    125
Glu Glu Ala Lys Ala Val Ser Ser Gln Met Ile Gly Lys Lys Leu Phe
130    135    140
Thr Lys Gln Thr Gly Glu Lys Gly Arg Ile Cys Asn Gln Val Leu Val

```

145		150		155		160									
Cys	Glu	Arg	Lys	Tyr	Pro	Arg	Arg	Glu	Tyr	Tyr	Phe	Ala	Ile	Thr	Met
			165						170					175	
Glu	Arg	Ser	Phe	Gln	Gly	Pro	Val	Leu	Ile	Gly	Ser	Ser	His	Gly	Gly
			180					185					190		
Val	Asn	Ile	Glu	Asp	Val	Ala	Ala	Glu	Ser	Pro	Glu	Ala	Ile	Ile	Lys
			195					200					205		
Glu	Pro	Ile	Asp	Ile	Glu	Glu	Gly	Ile	Lys	Lys	Glu	Gln	Ala	Leu	Gln
			210					215					220		
Leu	Ala	Gln	Lys	Asn	Gly	Ile	Ser	Pro	Asn	Ile	Gly	Ile	Ser	Ser	Arg
			225					230					235		240
Lys	Thr	Trp	Ser	Ser	Phe	Thr	Phe	Leu	Lys	Tyr	Asp	Ala	Thr	Leu	Asp
			245						250					255	
Arg	Lys	Leu													

&lt;210&gt; 167

&lt;211&gt; 5307

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 167

gaataacagt	taagtttttg	ggagtaaaaa	ctgttttcaat	ttttgactgt	gttggggggtt	60
ggtgctccta	atccctgtgt	tgtaaagggt	tcgactatat	tgtatttttg	aaaattgcta	120
gagagtggac	gtaaagtgtt	ctcactaaac	aaattataac	tatgtgaggt	agtgcataata	180
ttaagtagct	agatttggtc	attccacaat	gtatatgtac	ttcaaaacat	catgttgtag	240
atgagaaaca	cagtttttatc	tgtagtcag	ttttaaaaaat	aaaaaatatt	ccaactagaa	300
actctgttgt	agtttttgaa	attacaactt	ggaggctttg	aggaactgat	tagaagtctc	360
ctttctgttt	caggctttca	tatccaaacc	atagatcttt	agaagtaaca	tctgttaatt	420
aattattaat	aaatagtttg	agtctttatt	aattcatgga	taacttgacc	atcttctctc	480
tccttttgct	tagataatcc	cagatcatgg	ccgggcacag	tagctcacgc	ctgtattccc	540
agcagtttgg	gagggccgagg	caggcagatc	acttgaactc	aggagtttga	gaccagcttg	600
ggcaacatgg	caaaaccctg	tctctattaa	aaatacaaaa	attagctggg	catggtagtg	660
catgcctgta	gtcccgagta	cctgggaggg	tgagggtggga	ggatcgcttg	agcctgggag	720
gttgaggctt	ctgtgcgcga	tgattgctcc	agtgtacacg	ccattgcact	ccagcctggg	780
tgacagagtg	agaccctgtc	tccaaaaaaa	aaaaaaatta	agcaagtagc	agttacaaga	840
ccaaaagtta	ttttcctttt	tttttttctc	tataaaattg	ccatttgga	ccaaatctag	900
ttataactta	tttcagtgtc	attaagaaag	ttgatgaata	agtcataatta	ctcagatggt	960
agtagctatg	catttattaa	tagttttatt	tataagtatt	tagtttctact	ctgttgacaga	1020
ctattttatg	ctaaaattag	ctaaagccaa	attactatgt	cttaaaacat	atcttttact	1080
tttttttttt	ttttaaatat	tattaggtac	ttcttgcaag	ggatatgcat	tagcacatac	1140
tcaagaaggg	gaagaaaaga	agcaaaactc	tggtacatca	aataccagag	gatcaagacg	1200
aaaacctgca	atgacaactc	ctacaaggag	gtctacacgt	aacacaagag	ctgaaacagc	1260
cagtcagtct	cagagatccc	caatatcaga	caattctggg	tgtgatgccc	caggtaacag	1320
taatccatct	ttaagtgttc	cctcttcagc	tgagtcagaa	aagcaaaca	gacaggctcc	1380
aaaacggaag	tctgtaagaa	gaggaagaaa	accaccttta	ctgaaaaaga	aacttcggag	1440
ctctgtagct	gcccctgaaa	aatcatcttc	caatgattca	gtagatgaag	aaacagcaga	1500
atctgacaca	tcacctgtgt	tagaaaaaga	gcaccaacca	gatgtagaca	gtagtaacat	1560
ttgtactgtg	cagactcatg	tagaaaaacca	gtctgcta	tgcttgaaaa	gttgcaatga	1620
gcaaatagaa	gaaagtgaga	agcatactgc	aaattatgat	acagaggaaa	gagtaggagc	1680
ttcatcttct	gagtccttg	ctcaagatct	tcctgtgcta	gttggtgagg	aagggaagt	1740
taaaaaactc	gagaatacag	gtatagaggc	taattgtttg	tgtttgaaa	gtgagatttc	1800
tgaaaatatt	cttgaaaaag	gaggtgatcc	attggaaaag	caagaccaga	tatctggact	1860
ttcacaatca	gaggtaaaga	cagatgtatg	tacagttcat	cttccaaatg	atcttctctac	1920
atgtttaaca	tctgaaagca	aagtgtacca	acctgtatct	tgctccctaa	gtgacttatac	1980

tgagaatgta	gagtcagtgg	ttaatgaaga	aaaaataaca	gagagttccc	tagtagaaat	2040
tactgaacat	aaagatttta	cactaaaaac	agaggagctt	atagagagcc	ccaagttaga	2100
atcttctgag	ggtgaaatta	tacagacagt	ggacagacaa	tctgttaaga	gccagaggt	2160
tcaattgctt	gggcatgttg	aaactgaaga	tgtagaata	attgcaacat	gtgatacttt	2220
tgggaatgaa	gatttcaata	atattcaaga	ctctgaaaat	aacttactaa	aaaataatct	2280
tctgaacacc	aaattggaaa	aatctttaga	agaaaagaat	gaatcgctga	ccgaacatcc	2340
tagatctaca	gagttgccta	aaacacacat	tgaacagatt	cagaagcatt	ttagtgagga	2400
caacaatgaa	atgataccta	tggagtgtga	ttcattttgc	agtgaccaa	atgaatctga	2460
agttgaacca	tctgtaaatg	ctgatcttaa	acaaatgaat	gaaaattctg	tgacacactg	2520
ttctgaaaat	aatatgcctg	cttctgatct	tgcggatgaa	aagggtgaaa	ctgtttctca	2580
accatctgaa	agcccaaaag	ataccataga	taaaaccaa	aagcctcgta	ctcgaagatc	2640
tagatttcat	tctccatcta	caacttggct	acccaacaaa	gacactccac	aagaaaagaa	2700
gcggcccccag	tctccatctc	ccagaagaga	aactgggaaa	gaaagcagga	agtctcaatc	2760
accatctcct	aagaatgagt	cagccagagg	cgggaaaaaa	tcccgttctc	agtcccaaaa	2820
aaaggatatt	gcaagagaaa	ggaggcaatc	tcagtctcgg	tctccaaaaa	gggatactac	2880
tagggaaagc	agaagatctg	aatcactgtc	cccaagaaga	gaaacttcta	gagagaacaa	2940
aagatctcag	ccaagagtga	aagattcttc	cccaggagaa	aaatccaggt	cccagagcag	3000
agaacgagaa	agtgatagag	atgggcagag	gagagagaga	gaaaggagaa	ccagaaagtg	3060
gtctaggtcc	agatctcatt	ctaggtcccc	ctcaagatgt	agaacaaaaa	gtaagagttc	3120
atcatttggg	agaattgaca	gagatagtta	ctctccccgg	tgggaaggga	gatgggcaaa	3180
tgatggttgg	agatgtccac	gaggaaatga	tcggtacaga	agaatgacc	cagagaacaa	3240
gaatgaaaa	acaagaaaag	aaaaaatga	catccatcta	gatgctgatg	atccaaattc	3300
tgctgacaaa	catagaaatg	actgtcccaa	tgggataaca	gaaaaaataa	actctgggccc	3360
tgatccaaga	accagaaatc	cagaaaaagt	gaaagagtct	cattgggaag	aaaatagaaa	3420
tgaaaattca	ggaaattctt	ggaataaaaa	ctttggttct	ggttgggtat	ctaaccgtgg	3480
tagaggcgaga	ggcaaccgtg	gcagaggcac	ttacagaagt	agttttgcct	ataaagatca	3540
gaatgaaaat	cgggtggcaa	atcgaaaacc	cctctcaggg	aattcaaaca	gttcagggag	3600
tgaatctttc	aagtttgtgg	aacagcaatc	ctataagcga	aaaagtgaac	aggagtctct	3660
atttgatata	ccagcagata	gatctggatg	gacatctgca	tccagctggg	ccgtgagaaa	3720
gactttgcca	gcagatgtac	aaaactacta	ctcacgacga	ggcagaaatt	cttcaggtcc	3780
acagtctgga	tggatgaaac	aagaggagga	aacatctgga	caggattcta	gcctaaaaga	3840
ccaaacaaac	cagcaagttg	atggttctca	gctacctata	aatatgatgc	aaccgcaaat	3900
gaaatgtaatg	cagcaacaaa	tgaatgcaca	acaccagcct	atgaatatct	tcccatatcc	3960
agtgggtgtt	catgtctcct	tgatgaacat	ccaacgcaat	ccatttaaca	ttcatcctca	4020
gctacccttg	catctccaca	caggagtgcc	cctcatgcag	gtagccactc	ctaccagtgt	4080
atctcaggga	ctaccaccac	caccaccccc	tccccacca	tccaacaag	tcaactacat	4140
tgcttcacaa	ccagatggaa	agcaattgca	gggtattcct	agttcttctc	atgtaagtaa	4200
taacatgagt	acaccagttt	tgcctgctcc	gacagcagcc	ccaggaaata	cgggaatggg	4260
tcagggacca	agttctggta	atacttcgtc	atcaagtcac	agcaaagcct	ctaagtctgc	4320
tgtaaaattg	gcagaaaagca	aagtaagtgt	tgcagtggaa	gccagcgag	atagctcgaa	4380
gacagacaag	aaattgcaaa	ttcaagaaaa	agcagcacia	gaggtaaaat	tggccatcaa	4440
gccattttac	caaaataaag	atatcaccaa	ggaagaatat	aaagaaattg	tacggaaagc	4500
agtagataaa	gtttgtcata	gtaagagtgg	agaagtaaat	tctactaaag	tggcaaatct	4560
ggttaaagcc	tatgtagaca	aatacaata	ttcacggaag	gggagccaaa	agaaaaactct	4620
ggaagaacct	gtgtctactg	aaaaaaacat	aggctgaaat	ggggaacgct	gtcaaggaca	4680
ttatcaggat	atctgcaaa	tgcaatttca	acatgtacca	ttaactgaaa	atcatacata	4740
actgtgattg	aaatttgggt	ttgataaaa	tattttttta	acataggata	tgatgttttg	4800
ttctaaataa	atataggtct	gcactgcaac	ttctgtatcc	ttccttcccc	tccacctcc	4860
cccacaaaat	tcaagggaaa	gtaaaagggt	taaaggaatg	tgcattctta	ctaggactgt	4920
gttatagtgt	ggatctgga	aaatgtatag	ctttttgatt	agggcaatgg	agtgcataaa	4980
ttagaaaact	ctaagtgcac	tggttttcaa	agagatatat	ataatgcatt	tattctgtca	5040
ggttaaaata	taaagtatga	tctttatgat	tttttccctc	taattataga	aagttaaata	5100
atgtattacc	atgaaaaatg	tttctaata	taaatagaac	atatcagttg	caaagtccct	5160
aatgtgtatt	tttaaagcac	atatctgaat	aaattgccta	gatagaaaaa	aaattatcac	5220
gagtaaaatt	tagtgttcaa	aacattgaaa	cactcttcac	ctattgtatg	accaaataaa	5280

ggttatgctg cttgttacgc gaaggcc

5307

<210> 168  
 <211> 1148  
 <212> PRT  
 <213> Homo Sapiens

<400> 168  
 Met Thr Thr Pro Thr Arg Arg Ser Thr Arg Asn Thr Arg Ala Glu Thr  
 1 5 10 15  
 Ala Ser Gln Ser Gln Arg Ser Pro Ile Ser Asp Asn Ser Gly Cys Asp  
 20 25 30  
 Ala Pro Gly Asn Ser Asn Pro Ser Leu Ser Val Pro Ser Ser Ala Glu  
 35 40 45  
 Ser Glu Lys Gln Thr Arg Gln Ala Pro Lys Arg Lys Ser Val Arg Arg  
 50 55 60  
 Gly Arg Lys Pro Pro Leu Leu Lys Lys Lys Leu Arg Ser Ser Val Ala  
 65 70 75 80  
 Ala Pro Glu Lys Ser Ser Asn Asp Ser Val Asp Glu Glu Thr Ala  
 85 90 95  
 Glu Ser Asp Thr Ser Pro Val Leu Glu Lys Glu His Gln Pro Asp Val  
 100 105 110  
 Asp Ser Ser Asn Ile Cys Thr Val Gln Thr His Val Glu Asn Gln Ser  
 115 120 125  
 Ala Asn Cys Leu Lys Ser Cys Asn Glu Gln Ile Glu Glu Ser Glu Lys  
 130 135 140  
 His Thr Ala Asn Tyr Asp Thr Glu Glu Arg Val Gly Ser Ser Ser Ser  
 145 150 155 160  
 Glu Ser Cys Ala Gln Asp Leu Pro Val Leu Val Gly Glu Glu Gly Glu  
 165 170 175  
 Val Lys Lys Leu Glu Asn Thr Gly Ile Glu Ala Asn Val Leu Cys Leu  
 180 185 190  
 Glu Ser Glu Ile Ser Glu Asn Ile Leu Glu Lys Gly Gly Asp Pro Leu  
 195 200 205  
 Glu Lys Gln Asp Gln Ile Ser Gly Leu Ser Gln Ser Glu Val Lys Thr  
 210 215 220  
 Asp Val Cys Thr Val His Leu Pro Asn Asp Phe Pro Thr Cys Leu Thr  
 225 230 235 240  
 Ser Glu Ser Lys Val Tyr Gln Pro Val Ser Cys Pro Leu Ser Asp Leu  
 245 250 255  
 Ser Glu Asn Val Glu Ser Val Val Asn Glu Glu Lys Ile Thr Glu Ser  
 260 265 270  
 Ser Leu Val Glu Ile Thr Glu His Lys Asp Phe Thr Leu Lys Thr Glu  
 275 280 285  
 Glu Leu Ile Glu Ser Pro Lys Leu Glu Ser Ser Glu Gly Glu Ile Ile  
 290 295 300  
 Gln Thr Val Asp Arg Gln Ser Val Lys Ser Pro Glu Val Gln Leu Leu  
 305 310 315 320  
 Gly His Val Glu Thr Glu Asp Val Glu Ile Ile Ala Thr Cys Asp Thr  
 325 330 335  
 Phe Gly Asn Glu Asp Phe Asn Asn Ile Gln Asp Ser Glu Asn Asn Leu  
 340 345 350  
 Leu Lys Asn Asn Leu Leu Asn Thr Lys Leu Glu Lys Ser Leu Glu Glu

```

      355              360              365
Lys Asn Glu Ser Leu Thr Glu His Pro Arg Ser Thr Glu Leu Pro Lys
  370              375              380
Thr His Ile Glu Gln Ile Gln Lys His Phe Ser Glu Asp Asn Asn Glu
 385              390              395              400
Met Ile Pro Met Glu Cys Asp Ser Phe Cys Ser Asp Gln Asn Glu Ser
      405              410              415
Glu Val Glu Pro Ser Val Asn Ala Asp Leu Lys Gln Met Asn Glu Asn
      420              425              430
Ser Val Thr His Cys Ser Glu Asn Asn Met Pro Ser Ser Asp Leu Ala
      435              440              445
Asp Glu Lys Val Glu Thr Val Ser Gln Pro Ser Glu Ser Pro Lys Asp
  450              455              460
Thr Ile Asp Lys Thr Lys Lys Pro Arg Thr Arg Arg Ser Arg Phe His
 465              470              475              480
Ser Pro Ser Thr Thr Trp Ser Pro Asn Lys Asp Thr Pro Gln Glu Lys
      485              490              495
Lys Arg Pro Gln Ser Pro Ser Pro Arg Arg Glu Thr Gly Lys Glu Ser
      500              505              510
Arg Lys Ser Gln Ser Pro Ser Pro Lys Asn Glu Ser Ala Arg Gly Arg
  515              520              525
Lys Lys Ser Arg Ser Gln Ser Pro Lys Lys Asp Ile Ala Arg Glu Arg
  530              535              540
Arg Gln Ser Gln Ser Arg Ser Pro Lys Arg Asp Thr Thr Arg Glu Ser
 545              550              555              560
Arg Arg Ser Glu Ser Leu Ser Pro Arg Arg Glu Thr Ser Arg Glu Asn
      565              570              575
Lys Arg Ser Gln Pro Arg Val Lys Asp Ser Ser Pro Gly Glu Lys Ser
      580              585              590
Arg Ser Gln Ser Arg Glu Arg Glu Ser Asp Arg Asp Gly Gln Arg Arg
  595              600              605
Glu Arg Glu Arg Arg Thr Arg Lys Trp Ser Arg Ser Arg Ser His Ser
  610              615              620
Arg Ser Pro Ser Arg Cys Arg Thr Lys Ser Lys Ser Ser Ser Phe Gly
 625              630              635              640
Arg Ile Asp Arg Asp Ser Tyr Ser Pro Arg Trp Lys Gly Arg Trp Ala
      645              650              655
Asn Asp Gly Trp Arg Cys Pro Arg Gly Asn Asp Arg Tyr Arg Lys Asn
  660              665              670
Asp Pro Glu Lys Gln Asn Glu Asn Thr Arg Lys Glu Lys Asn Asp Ile
  675              680              685
His Leu Asp Ala Asp Asp Pro Asn Ser Ala Asp Lys His Arg Asn Asp
  690              695              700
Cys Pro Asn Trp Ile Thr Glu Lys Ile Asn Ser Gly Pro Asp Pro Arg
 705              710              715              720
Thr Arg Asn Pro Glu Lys Leu Lys Glu Ser His Trp Glu Glu Asn Arg
      725              730              735
Asn Glu Asn Ser Gly Asn Ser Trp Asn Lys Asn Phe Gly Ser Gly Trp
      740              745              750
Val Ser Asn Arg Gly Arg Gly Arg Gly Asn Arg Gly Arg Gly Thr Tyr
      755              760              765
Arg Ser Ser Phe Ala Tyr Lys Asp Gln Asn Glu Asn Arg Trp Gln Asn
  770              775              780
Arg Lys Pro Leu Ser Gly Asn Ser Asn Ser Ser Gly Ser Glu Ser Phe
 785              790              795              800

```



```
<210> 169
<211> 597
<212> DNA
<213> Homo Sapiens
```

-132-

cgaccgatgc	tcacaattct	gacctcgtaa	ttatataggg	ggtgggtttg	gtttctgcgt	300
ctttccctga	ttcagtggca	ggtaacatat	ttcatgtaca	aaatgaactg	caacaccacg	360
gcaaaccaagg	gacaggccct	caaagttgtc	ggtagggagc	caggaccccg	ccagtggcgt	420
ggggagacac	cgtactaaac	aagcttgcaa	acagcaggca	ccttcctgcc	actgaggagg	480
aagggtggc	taaggaggc	cggggcggag	gaagccaagc	tctgcaggcc	ctgacaaagt	540
cctcccgccc	tccacgcgtc	gccatggcaa	cgcggggtct	gtgctgcccc	ggatttgg	597

&lt;210&gt; 170

&lt;211&gt; 3344

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 170

ggtacagctg	cgctctgcg	ggaataggtg	cagcggggccc	ttggcggggg	actctgaggg	60
aggagctggg	gacggcgacc	ctaggagagt	tctttggggt	gactttcaag	atggactcta	120
ctctaacagc	aagtgaatc	cggcagcgat	ttatagattt	cttcaagagg	aacgagcata	180
cgtatgttca	ctcgtctgcc	accatcccat	tggatgaccc	cactttgctc	tttgccaatg	240
caggcatgaa	ccagtttaaa	ccatttttcc	tgaacacaat	tgacccatct	caccccatgg	300
caaagctgag	cagagctgcc	aatacccaga	agtgcacccg	ggctgggggg	aaacaaaatg	360
acctggacga	tgtgggcaag	gatgtctatc	atcacacctt	cttcgagatg	ctgggctctt	420
ggtcttttgg	agattacttt	aaggaatttg	catgtaagat	ggctctggaa	ctcctcacc	480
aagagtttgg	cattcccatt	gaaagacttt	atgttactta	ctttggcggg	gatgaagcag	540
ctggcttaga	agcagatctg	gaatgcaaac	agatctggca	aaatttgggg	ctggatgaca	600
ccaaaatcct	cccaggcaac	atgaaggata	acttctggga	gatgggtgac	acgggcccct	660
gtggtccttg	cagtgcagtc	cactacgacc	ggattgggtg	tcgggacgcc	gcacatcttg	720
tcaaccagga	cgacccta	gtgctggaga	tctggaacct	tgtgttcac	cagtataaca	780
gggaagctga	tggcattctg	aaacctcttc	ccaagaaaag	cattgacaca	gggatgggcc	840
tggaaacgact	ggtatctgtg	ctgcagaata	agatgtccaa	ctatgacact	gacctttttg	900
tcccttactt	tgaagccatt	cagaagggca	caggtgcccc	accatacact	gggaaagtgt	960
gtgctgagga	tgccgatggg	attgacatgg	cctaccgggt	gctggctgac	catgctcgga	1020
ccatcactgt	ggcactggct	gatggtggcc	ggcctgacaa	cacagggcgt	ggatatgtgt	1080
tgagacggat	tctccgccga	gctgtccgat	acgccatga	aaagctcaat	gccagcaggg	1140
gcttctttgc	tacgttagtg	gatgttgtcg	tccagtcctt	gggagatgca	tttcctgagc	1200
tgaagaagga	cccagacatg	gtgaaggaca	tcattaatga	agaagagggt	cagtttctca	1260
agactctcag	cagagggcgt	cgcacctctg	acaggaaaat	tcagagcctg	ggagacagca	1320
agaccattcc	cggagacact	gcttggctcc	tctatgacac	ctatgggttt	ccagtggatc	1380
tgactggact	gattgctgaa	gagaagggcc	tggtggtaga	catggatggc	tttgaagagg	1440
agaggaaaact	ggcccagctg	aaatcacagg	gcaagggagc	tggtggggaa	gacctcatta	1500
tgctggacat	ttacgctatc	gaagagctcc	gggcacgggg	tctggagggtc	acagatgatt	1560
ccccaaagta	caattaccat	ttggactcca	gtggtagcta	tgtatttgag	aacacagtgg	1620
ctacgggtgat	ggctctgcgc	agggagaaga	tgttctgga	agagggtgtcc	acaggccagg	1680
agtgtggagt	ggtgctggac	aagacctgtt	tctatgctga	gcaaggaggc	cagatctatg	1740
acgaaggcta	cctggtgaag	gtggatgaca	gcagtgaaga	taaaacagag	tttacagtga	1800
agaatgctca	ggtccgagga	gggtatgtgc	tacacatttg	aaccatctac	ggtgacctga	1860
aagtggggga	tcaggtctgg	ctgtttattg	atgagccccg	acgaagacct	atcatgagca	1920
accacacagc	tacgcacatt	ctgaacttcg	ccctgcgctc	agtgcctggg	gaagctgacc	1980
agaaaggctc	attggttgct	cctgacccgc	tcagatttga	ctttactgcc	aaggagacca	2040
tgteccacca	acagatcaag	aaggctgaag	agattgctaa	tgagatgatt	gaggcagcca	2100
aggccgtcta	taccagcat	tgccccctgg	cagcagcgaa	agccatccag	ggcctacggg	2160
ctgtgtttga	tgagacctat	cctgaccttg	tgcgagtcgt	ctccattggg	gtcccggtgt	2220
ccgagttgct	ggatgacccc	tctgggcctg	ctggctccct	gacttctgtt	gagttctgtg	2280
ggggaaacgca	cctgcggaac	tcgagtcagt	caggagcttt	tgtgatcgtg	acggaagaag	2340
ccattgccaa	gggtatccgg	aggattgtgg	ctgtcacagg	tgccgaggcc	cagaaggccc	2400
tcaggaaagc	agagagcttg	aagaaatgtc	tctctgtcat	ggaagccaaa	gtgaaggctc	2460
agactgctcc	aaacaaggat	gtgcagaggg	agatcgctga	ccttggagag	gccctggcca	2520

```

ctgcagtcacat cccccagtgagg cagaaggatg aattgcggga gactctcaaa tccctaaga 2580
aggtcatgga tgacttggaac cgagccagca aagccgatgt ccagaaacga gtgttagaga 2640
agacgaagca gttcatcgac agcaacccca accagcctct tgatcatctg gagatggaga 2700
gcggcgccctc agccaaggcc ctgaatgaag cttgaagct cttcaagatg cactccctc 2760
agacttctgc catgctcttc acggtggaca atgaggctgg caagatcacg tgcctgtgtc 2820
aagtcaccca gaatgcagcc aatcggggct taaaagccag cgagtgggtg cagcaggtgt 2880
caggcttgat ggacggtaaa ggtgggtggca aggatgtgtc tgcacaggcc acaggcaaga 2940
acgttggtgctg cctgcaggag gcgctgcagc tggccacttc cttcgcccag ctgcgcctcg 3000
gggatgtaaa gaactgagtg ggggaaggagg aggtctccac tggatccatc cgtccagcca 3060
agagctcttc atctgctaca agaacatttg aatcttggga cctttaaaga gccctccta 3120
accagcagat aactggaaca cacttgggag cagtctatg tctcagtgcc ccttaaattt 3180
ctgccctgag cctccacagt cagtgccatc ggtctagaac cactaacccc gcattgctgt 3240
tgatcgctac gctcgcatct atagataacg gctctccaga cctgagcttt ccgcgtcagc 3300
aagtaggaat cgtttttgct gcagagaata aaaggaccac gtgc 3344

```

<210> 171  
 <211> 1004  
 <212> PRT  
 <213> Homo Sapiens

<400> 171

Tyr	Ser	Cys	Ala	Ser	Ala	Gly	Ile	Gly	Ala	Ala	Gly	Pro	Trp	Arg	Gly
1				5					10					15	
Thr	Leu	Arg	Glu	Glu	Leu	Gly	Thr	Ala	Thr	Leu	Gly	Glu	Phe	Phe	Gly
			20					25					30		
Val	Thr	Phe	Lys	Met	Asp	Ser	Thr	Leu	Thr	Ala	Ser	Glu	Ile	Arg	Gln
			35					40				45			
Arg	Phe	Ile	Asp	Phe	Phe	Lys	Arg	Asn	Glu	His	Thr	Tyr	Val	His	Ser
			50			55					60				
Ser	Ala	Thr	Ile	Pro	Leu	Asp	Asp	Pro	Thr	Leu	Leu	Phe	Ala	Asn	Ala
65					70					75				80	
Gly	Met	Asn	Gln	Phe	Lys	Pro	Ile	Phe	Leu	Asn	Thr	Ile	Asp	Pro	Ser
				85					90					95	
His	Pro	Met	Ala	Lys	Leu	Ser	Arg	Ala	Ala	Asn	Thr	Gln	Lys	Cys	Ile
			100					105					110		
Arg	Ala	Gly	Gly	Lys	Gln	Asn	Asp	Leu	Asp	Asp	Val	Gly	Lys	Asp	Val
			115				120					125			
Tyr	His	His	Thr	Phe	Phe	Glu	Met	Leu	Gly	Ser	Trp	Ser	Phe	Gly	Asp
			130			135					140				
Tyr	Phe	Lys	Glu	Leu	Ala	Cys	Lys	Met	Ala	Leu	Glu	Leu	Leu	Thr	Gln
145					150					155				160	
Glu	Phe	Gly	Ile	Pro	Ile	Glu	Arg	Leu	Tyr	Val	Thr	Tyr	Phe	Gly	Gly
				165				170						175	
Asp	Glu	Ala	Ala	Gly	Leu	Glu	Ala	Asp	Leu	Glu	Cys	Lys	Gln	Ile	Trp
			180					185					190		
Gln	Asn	Leu	Gly	Leu	Asp	Asp	Thr	Lys	Ile	Leu	Pro	Gly	Asn	Met	Lys
			195				200					205			
Asp	Asn	Phe	Trp	Glu	Met	Gly	Asp	Thr	Gly	Pro	Cys	Gly	Pro	Cys	Ser
			210			215					220				
Glu	Ile	His	Tyr	Asp	Arg	Ile	Gly	Gly	Arg	Asp	Ala	Ala	His	Leu	Val
225					230					235				240	
Asn	Gln	Asp	Asp	Pro	Asn	Val	Leu	Glu	Ile	Trp	Asn	Leu	Val	Phe	Ile
				245					250					255	
Gln	Tyr	Asn	Arg	Glu	Ala	Asp	Gly	Ile	Leu	Lys	Pro	Leu	Pro	Lys	Lys
			260					265					270		

Ser Ile Asp Thr Gly Met Gly Leu Glu Arg Leu Val Ser Val Leu Gln  
 275 280 285  
 Asn Lys Met Ser Asn Tyr Asp Thr Asp Leu Phe Val Pro Tyr Phe Glu  
 290 295 300  
 Ala Ile Gln Lys Gly Thr Gly Ala Arg Pro Tyr Thr Gly Lys Val Gly  
 305 310 315 320  
 Ala Glu Asp Ala Asp Gly Ile Asp Met Ala Tyr Arg Val Leu Ala Asp  
 325 330 335  
 His Ala Arg Thr Ile Thr Val Ala Leu Ala Asp Gly Gly Arg Pro Asp  
 340 345 350  
 Asn Thr Gly Arg Gly Tyr Val Leu Arg Arg Ile Leu Arg Arg Ala Val  
 355 360 365  
 Arg Tyr Ala His Glu Lys Leu Asn Ala Ser Arg Gly Phe Phe Ala Thr  
 370 375 380  
 Leu Val Asp Val Val Val Gln Ser Leu Gly Asp Ala Phe Pro Glu Leu  
 385 390 395 400  
 Lys Lys Asp Pro Asp Met Val Lys Asp Ile Ile Asn Glu Glu Glu Val  
 405 410 415  
 Gln Phe Leu Lys Thr Leu Ser Arg Gly Arg Arg Ile Leu Asp Arg Lys  
 420 425 430  
 Ile Gln Ser Leu Gly Asp Ser Lys Thr Ile Pro Gly Asp Thr Ala Trp  
 435 440 445  
 Leu Leu Tyr Asp Thr Tyr Gly Phe Pro Val Asp Leu Thr Gly Leu Ile  
 450 455 460  
 Ala Glu Glu Lys Gly Leu Val Val Asp Met Asp Gly Phe Glu Glu Glu  
 465 470 475 480  
 Arg Lys Leu Ala Gln Leu Lys Ser Gln Gly Lys Gly Ala Gly Gly Glu  
 485 490 495  
 Asp Leu Ile Met Leu Asp Ile Tyr Ala Ile Glu Glu Leu Arg Ala Arg  
 500 505 510  
 Gly Leu Glu Val Thr Asp Asp Ser Pro Lys Tyr Asn Tyr His Leu Asp  
 515 520 525  
 Ser Ser Gly Ser Tyr Val Phe Glu Asn Thr Val Ala Thr Val Met Ala  
 530 535 540  
 Leu Arg Arg Glu Lys Met Phe Val Glu Glu Val Ser Thr Gly Gln Glu  
 545 550 555 560  
 Cys Gly Val Val Leu Asp Lys Thr Cys Phe Tyr Ala Glu Gln Gly Gly  
 565 570 575  
 Gln Ile Tyr Asp Glu Gly Tyr Leu Val Lys Val Asp Asp Ser Ser Glu  
 580 585 590  
 Asp Lys Thr Glu Phe Thr Val Lys Asn Ala Gln Val Arg Gly Gly Tyr  
 595 600 605  
 Val Leu His Ile Gly Thr Ile Tyr Gly Asp Leu Lys Val Gly Asp Gln  
 610 615 620  
 Val Trp Leu Phe Ile Asp Glu Pro Arg Arg Arg Pro Ile Met Ser Asn  
 625 630 635 640  
 His Thr Ala Thr His Ile Leu Asn Phe Ala Leu Arg Ser Val Leu Gly  
 645 650 655  
 Glu Ala Asp Gln Lys Gly Ser Leu Val Ala Pro Asp Arg Leu Arg Phe  
 660 665 670  
 Asp Phe Thr Ala Lys Gly Ala Met Ser Thr Gln Gln Ile Lys Lys Ala  
 675 680 685  
 Glu Glu Ile Ala Asn Glu Met Ile Glu Ala Ala Lys Ala Val Tyr Thr  
 690 695 700  
 Gln Asp Cys Pro Leu Ala Ala Lys Ala Ile Gln Gly Leu Arg Ala

```

705          710          715          720
Val Phe Asp Glu Thr Tyr Pro Asp Pro Val Arg Val Val Ser Ile Gly
          725          730          735
Val Pro Val Ser Glu Leu Leu Asp Asp Pro Ser Gly Pro Ala Gly Ser
          740          745          750
Leu Thr Ser Val Glu Phe Cys Gly Gly Thr His Leu Arg Asn Ser Ser
          755          760          765
His Ala Gly Ala Phe Val Ile Val Thr Glu Glu Ala Ile Ala Lys Gly
          770          775          780
Ile Arg Arg Ile Val Ala Val Thr Gly Ala Glu Ala Gln Lys Ala Leu
785          790          795          800
Arg Lys Ala Glu Ser Leu Lys Lys Cys Leu Ser Val Met Glu Ala Lys
          805          810          815
Val Lys Ala Gln Thr Ala Pro Asn Lys Asp Val Gln Arg Glu Ile Ala
          820          825          830
Asp Leu Gly Glu Ala Leu Ala Thr Ala Val Ile Pro Gln Trp Gln Lys
          835          840          845
Asp Glu Leu Arg Glu Thr Leu Lys Ser Leu Lys Lys Val Met Asp Asp
          850          855          860
Leu Asp Arg Ala Ser Lys Ala Asp Val Gln Lys Arg Val Leu Glu Lys
865          870          875          880
Thr Lys Gln Phe Ile Asp Ser Asn Pro Asn Gln Pro Leu Val Ile Leu
          885          890          895
Glu Met Glu Ser Gly Ala Ser Ala Lys Ala Leu Asn Glu Ala Leu Lys
          900          905          910
Leu Phe Lys Met His Ser Pro Gln Thr Ser Ala Met Leu Phe Thr Val
          915          920          925
Asp Asn Glu Ala Gly Lys Ile Thr Cys Leu Cys Gln Val Pro Gln Asn
          930          935          940
Ala Ala Asn Arg Gly Leu Lys Ala Ser Glu Trp Val Gln Gln Val Ser
945          950          955          960
Gly Leu Met Asp Gly Lys Gly Gly Gly Lys Asp Val Ser Ala Gln Ala
          965          970          975
Thr Gly Lys Asn Val Gly Cys Leu Gln Glu Ala Leu Gln Leu Ala Thr
          980          985          990
Ser Phe Ala Gln Leu Arg Leu Gly Asp Val Lys Asn
          995          1000

```

```

<210> 172
<211> 659
<212> DNA
<213> Homo Sapiens

```

```

<400> 172
gcctgagcaa cgtctccgag caggcgctgg gctagaggcg ggtctcaacc agctactcat      60
tgaggcgagg cttgagagcg gcggccaggg aggtgcggag cagcctcggc ggcggcggcc      120
gaaccaaccg agtcggatcc tgaccctaaa acctagtatt ttccacttgt tcatcaatat      180
ggaaaactca gattccaatg acaaaggaag tggtagatcag tctgcagcac agcgcagaag      240
tcagatggac cgattggatc gagaagaagc tttctatcaa tttgtaaata acctgagtga      300
agaagattat aggcttatga gagataacaa tttgctaggc accccagggtg aaagtactga      360
ggaagagttg ctgagacgac tacagcaaat taaagaaggc ccaccaccgc aaaactcaga      420
tgaaaataga ggaggagact cttcagatga tgtgtctaata ggtgactcta taatagactg      480
gcttaactct gtcagacaaa ctggaaatac aacaagaagt gggcaaagag gaaaccaatc      540
ttggagagca gtgagtcgga ctaatccaaa cagtgggtga tttcagattc agtttagaga      600
taaatgttaa cccgtaataa tgggagccaa aattcagaga atgaaaatga gccatctgc      659

```

<210> 173  
 <211> 192  
 <212> PRT  
 <213> Homo Sapiens

<400> 173  
 Pro Glu Gln Arg Leu Arg Ala Gly Ala Gly Leu Glu Ala Gly Leu Asn  
 1 5 10 15  
 Gln Leu Leu Ile Gly Gly Gly Leu Glu Ser Gly Gly Gln Gly Gly Ala  
 20 25 30  
 Glu Gln Pro Arg Arg Arg Arg Pro Asn Gln Pro Ser Arg Ile Leu Thr  
 35 40 45  
 Leu Lys Pro Ser Ile Phe His Leu Phe Ile Asn Met Glu Asn Ser Asp  
 50 55 60  
 Ser Asn Asp Lys Gly Ser Gly Asp Gln Ser Ala Ala Gln Arg Arg Ser  
 65 70 75 80  
 Gln Met Asp Arg Leu Asp Arg Glu Glu Ala Phe Tyr Gln Phe Val Asn  
 85 90 95  
 Asn Leu Ser Glu Glu Asp Tyr Arg Leu Met Arg Asp Asn Asn Leu Leu  
 100 105 110  
 Gly Thr Pro Gly Glu Ser Thr Glu Glu Glu Leu Leu Arg Arg Leu Gln  
 115 120 125  
 Gln Ile Lys Glu Gly Pro Pro Gln Asn Ser Asp Glu Asn Arg Gly  
 130 135 140  
 Gly Asp Ser Ser Asp Asp Val Ser Asn Gly Asp Ser Ile Ile Asp Trp  
 145 150 155 160  
 Leu Asn Ser Val Arg Gln Thr Gly Asn Thr Thr Arg Ser Gly Gln Arg  
 165 170 175  
 Gly Asn Gln Ser Trp Arg Ala Val Ser Arg Thr Asn Pro Asn Ser Gly  
 180 185 190

<210> 174  
 <211> 610  
 <212> DNA  
 <213> Homo Sapiens

<400> 174  
 gtactggcat cagtcaatgt tctggagtga tttgggcccc gatgttggct atgaagctat 60  
 tggctcttggtg gacagtagtt tgcccacagt tgggtgtttt gcaaaagcaa ctgcacaaga 120  
 caacccccaaa tctgccacag agcagtcagg aactggtatc cgatcagaga gtgagacaga 180  
 gtccgaggcc tcagaaatta ctattcctcc cagcaccocg gcagttccac aggctcccg 240  
 ccagggggag gactacggca aaggtgtcat cttctacctc agggacaaag tggctcgtggg 300  
 gattgtgcta tggaacatct ttaaccgaat gccaatagca aggaagatca ttaaggacgg 360  
 tgagcagcat gaagatctca atgaagtagc caaactattc aacattcatg aagactgaag 420  
 cccacagtg gaattggcaa acccactgca gccctgaga ggaggtcgaa tgggtaaagg 480  
 agcatttttt tattcagcag actttctctg tgtatgagtg tgaatgatca agtcctttgt 540  
 gaatattttc aactatgtag gtaaattctt aatgttcnca tagtgaaata aattctgatt 600  
 cttctaaaaa 610

<210> 175  
 <211> 138  
 <212> PRT  
 <213> Homo Sapiens

<400> 175

Tyr Trp His Gln Ser Met Phe Trp Ser Asp Leu Gly Pro Asp Val Gly  
 1 5 10 15  
 Tyr Glu Ala Ile Gly Leu Val Asp Ser Ser Leu Pro Thr Val Gly Val  
 20 25 30  
 Phe Ala Lys Ala Thr Ala Gln Asp Asn Pro Lys Ser Ala Thr Glu Gln  
 35 40 45  
 Ser Gly Thr Gly Ile Arg Ser Glu Ser Glu Thr Glu Ser Glu Ala Ser  
 50 55 60  
 Glu Ile Thr Ile Pro Pro Ser Thr Pro Ala Val Pro Gln Ala Pro Val  
 65 70 75 80  
 Gln Gly Glu Asp Tyr Gly Lys Gly Val Ile Phe Tyr Leu Arg Asp Lys  
 85 90 95  
 Val Val Val Gly Ile Val Leu Trp Asn Ile Phe Asn Arg Met Pro Ile  
 100 105 110  
 Ala Arg Lys Ile Ile Lys Asp Gly Glu Gln His Glu Asp Leu Asn Glu  
 115 120 125  
 Val Ala Lys Leu Phe Asn Ile His Glu Asp  
 130 135

&lt;210&gt; 176

&lt;211&gt; 805

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 176

```

gggacagcca agtctgtgac ttgcacgtac tcccctgccc tcaacaagat gttttgccaa      60
ctggccaaga cctgccctgt gcagctgtgg gttgattcca caccgccgcc cggcaccgcg      120
gtccgcgcca tggccatcta caagcagtcg cagcacatga cggagggttg gaggcgctgc      180
ccccaccatg agcgtgtgtc agatagcgat ggtctggccc ctctcagca tcttatccga      240
gtggaaggaa atttgcgtgt ggagtatttg gatgacagaa acacttttcg acatagtgtg      300
gtggtgccct atgagccgcc tgaggttggc tctgactgta ccaccatcca ctacaactac      360
atgtgtaaca gttcctgcat gggcggcatg aaccggaggc ccacccctac catcatcaca      420
ctggaagact ccagtggtaa tctactggga cggaacagct ttgagggtgc tgtttgtgcc      480
tgtcctggga gagaccggcg cacagaggaa gagaatctcc gcaagaaagg ggagcctcac      540
cacgaagctg cccccaggga gactaagcg agcactgccc aacaacacca agctcctctc      600
cccagccaaa gaagaaanct ctggatngag aatatttcac cccttcanat tcgttgggcg      660
tgagcgcttc cganaatgtt ccgaagagct gnaagaaggc cttgggaact caaaggatgc      720
ccaaggcttg ggaagggagc caangggggg gaancaangg gctcaactnc aagccaacct      780
gaaagttcca aaaaangggg ccagt

```

&lt;210&gt; 177

&lt;211&gt; 626

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 177

```

ctaatttgtc tgtttattcc cacaaggtag ccaggggttg gggcgccgag ccaagcccag      60
caggccatgg gaccttctc cggcggggtg cacgctggat ttctgggtct gccccaccag      120
cagggtttgca ggcaggccgt catgagtgcc ggtggaaggc tccgagggcg tgggcagggg      180
ctcggggcggg gccacacact tgtggagcta gaaatantgg ggcagggtcct tctctatcac      240
cagggggtcc tccatgggtc cgtagcgctt caccacgcag ccgttcttgt cgtatgaggaa      300
ctgtgganan acggtgtcca aactgtgggg ccaccctgc aaggggctga ggctgccctt      360
cctgtccgct gccatcttg gccacggctg tggccagggg aaactgggtc cctaccccc      420
acagccccct tacctttggg gaagttccac ttgatggcac tggaaaaana gcacatggac      480
gtgagcgtcc ccaggcagcc cccacagtc cccaaagctt gtctgtctc caaggaggcc      540

```

anaaaggttg tnagcttccc ceggtncctc cacangccac agtgccccca aanccccccc 600  
 aanagccatc ttacccccaa ggaggg 626

<210> 178

<211> 793

<212> DNA

<213> Homo Sapiens

<400> 178

gcgcgaggct gctgctgctg cccccggccc gcgcgggctgg aaacggagag gccgagccaa 60  
 gcggcggccc ctcttatgct gggaggatgc tggagagtag cggctgcaaa gcgctgaagg 120  
 agggcgtgct ggagaagcgc agcgacgggt tgttgacgct ctggaagaaa aagtgttgca 180  
 tcttcaccga ggaagggtct ctgcttatcc cgcacaagca gctgcaaac cagcagcagc 240  
 agcaacagca gcagcagcag cagcaacaac agcccgggca ggggcccggc gagccgtccc 300  
 aaccagtggt ccccgctgtc gccagcctcg agccgcgggt caagctcaag gaactgcact 360  
 tctccaacat gaagaccgtg gactgtgtgg agcgcaagg caagtacatg tacttctactg 420  
 tgggtgatggc agagggaag gagatcgact ttcgggtgccc gcaagaccag ggctggaacg 480  
 ccgagatcac gctgcagatg gtgcagtaca agaatcgtca ggccatcctg gcggtcaaat 540  
 ccacgcggca gaagcagcag cacctgggtcc agcancagcc cccctcgag ccgcagccgc 600  
 agccgcagct ccaagcccca accccagcct tcagcctcaa gccngcaacc ccaagcccca 660  
 attcacaac ccgaagccct caagcccca cccaaagccc tcangcccca ngcaagntcc 720  
 aaccggttat ncggccatcc aacattcaan atccaanact ctcaangcct taactnccn 780  
 acccaanaac nct 793

<210> 179

<211> 786

<212> DNA

<213> Homo Sapiens

<400> 179

aatatcagag ttttaatttc aaccagctgg cacaacaatg aaagtgtcag actttctgaa 60  
 agtactcgag aaataatgaa taaattctta atgttttccc ctccaccgcc cttttttatt 120  
 ctccaagatt aggaattact acggattagg tttttgaaaa taaagtttcc tttttggaaa 180  
 atggtctaca ttcagaaatg tcttagaaca agcattttaa aaaaactaat aaataatcat 240  
 aaatcaaat acattaaaat aaaattacag tacatcatcg ctctagaaa attcaccata 300  
 caagacgac ctttcaaagg ttcataaata aaagtcttct tgactcgaaa tcgtttcctg 360  
 catcgtgatg aaaagtatgc agaaaaactaa gaagaatcgc aagttttcag taggggtgatg 420  
 tccaaactac ttgatctggt gcggggcgga gagactgttt tgcttttgat ccaagtgaag 480  
 acaatagaaa tgtgctcgtc ccaacttctc aagtcctcaa aaccttgtct tgcccgggag 540  
 ctgccccttt cangcagagt tgggaggtgc tgcgganaaaa ccggtgcccg tgcggtgcc 600  
 aatgcggctg tgggtgtggg tgcngtattt ggtgccggat gcnggtgccg ggtnaagggtg 660  
 tggggtgccca antnaaggat gaaaatgtgg atnttngnat nttgattccg gatacggggt 720  
 gggaacctng cngggggccn naaggcttgg ggttggggct naanggtgg ggttttttaa 780  
 ttgggg 786

<210> 180

<211> 791

<212> DNA

<213> Homo Sapiens

<400> 180

aggacctcag agaccagggc tctgtgattg tggccttcaa ggaaggggaa cagaaggaga 60  
 aggagggtat cctgcagctg cgtcgacca actcagccaa gccagtgcca ctggcaccat 120  
 ccctcatggc ctcttctccg acttctatct gtgtgtgtgg gcagggtcca gctgggggtg 180  
 gagtctgca gtgtgacctg tgtcaggact ggttccatgg gcagtgtgtg tcagtgtccc 240



atctcctcac	ctctccaaag	cccagttctca	cttcatctcc	actgctagcc	tggtgggaat	300
gggacacaaa	attcctgtgt	ccactgtgta	tgcgctcacg	acggccacgc	ctagagacaa	360
tcctagcctt	gctgggtgcc	ctgcagaggg	tgcccgtgcg	gctgcctgag	ggtgaggccc	420
ttcagtgtct	cacagagagg	gccattggct	ggcaagaccg	tgccagaaag	gctctggcct	480
ctgaagatgt	gactgctctg	ttgcgacagc	tggtctgagct	tcgccaacag	ctacaggcca	540
aaccanacc	agaggaggcc	tcagtctaca	cttcagccac	tgctgtgac	cctatcagag	600
aaggcagtgg	caacaatatt	tcnaangtcc	aagggctgct	ggagaatgga	gacantgttg	660
accagtcctg	agaacatggc	tccaggaaag	ggctctgacc	tgagctacn	gtcctcactg	720
ttgccgcaat	ttgactggnc	ctgttttttg	ganctgcctg	aaggcaatcc	cggggctccc	780
cctggaggga	g					791

&lt;210&gt; 181

&lt;211&gt; 747

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 181

agtatccaaa	catactcatt	gttttatttt	taacaaaaga	aatgaaatta	aagatagacc	60
acaggtagag	tcataaaaatt	cttggttttc	cctattcttt	ttggttaatta	caacgtacat	120
tgtcttcttt	tataataaga	cccaagggga	gaaaagaaaa	ggatgtacaa	tgaaggtaca	180
agttttgaag	caacaaaata	ttttatgaca	gggacaaaaa	aacaaaaaac	aaacaaaaat	240
tgaagtacag	aaagagggtg	gtggggggcaa	aaataaaagg	acgcacttgg	gcttcctcaa	300
gatttggttg	tccttattca	gactagaatg	aaactgggtt	aggaaatcac	tcctgtatgc	360
tagcaggaat	gttgctggca	agacacttct	gagcatcggt	gtgtggactt	tacgaaccaa	420
ccttttaaca	gtaactctag	gagagaggat	atcaaaaatt	ggcagtgaag	aattatagat	480
aggcaaaaag	ctccttctga	ggtccaggcc	aggagatagt	angatttaag	aaacaaacaa	540
acaataacaa	ccacaaatgg	acctttggtg	ccactgtcac	aactgttgct	catcagagta	600
ggagaattgt	ancaaaggca	ttaaagaagg	gacaagcaag	ctgaagagcc	tgaatccttg	660
gggttgtaag	ccnatttttg	gnttccttct	aagaaaaggg	ctgttggncc	gtggaanggg	720
tcanggaaca	ntatttcacg	ggtcngc				747

&lt;210&gt; 182

&lt;211&gt; 909

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 182

aaacagagag	ccaaatcatg	agtgaactcc	cattcacaaat	tgcttccaag	ataataaaaat	60
acctaggaat	caaacttaca	aaggatgtga	aggacctctt	caaggagAAC	tacaaaccac	120
tgctcaatga	aataaaaagag	gatacaaaac	aatggaagaa	cattccatgc	tcattgggtag	180
gaagaatcaa	tatcgtgaaa	atggccatac	tgcccagggt	aatgtataga	ttcaatgccA	240
tccccatcaa	gctaccaatg	actttcttca	cagaattgga	aaaaactact	caaaagtcca	300
tatggaacca	aaaaagagcc	cacattgccA	agtcaatcct	aagccaaaag	aacaaagctg	360
gaggcatcac	gctacctgac	ttcaaactat	actacaaggc	tacagtaacc	aaaacagcgt	420
ggtactggta	ccaaaacaga	gatataaatc	aatgcaacag	aacagagccc	tcagaaataa	480
tgccacatat	ctacaactat	ctgatctttg	acaaacctga	gaaaaacaag	caatggggaa	540
aggattccct	atttaataaa	tggtgctggg	aaaactggct	agccatatgt	agaaagctga	600
aactggatct	cttctttata	ccttatacaa	aaattaatgt	aagatggntt	aaaggactta	660
aacgttagac	ctaaaaccat	aaaaacccta	gaagaaaaac	ctaggcatta	ccattcangg	720
acataggctt	gggcaaggac	ttcctgtcta	aaacaccaan	agcaatggga	ncaaaagcca	780
aaattgcaaa	tggggattct	aattaactaa	agggcttttg	cacagcnaag	aagctccatc	840
agagngaaca	ggaaantcaa	antgggagaa	attttgaacc	taccatcnga	naaggctaata	900
nccagaatc						909

&lt;210&gt; 183

&lt;211&gt; 708

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 183

attatcatta	tactttaagt	tttaggttac	atgtgcacaa	tgtgcagggt	agttacatat	60
gtatacatgt	gccatgctgg	tgtgctgcac	ccattaactc	gttattttage	attaggtata	120
tctcctaagt	ctatccctcc	cgctccccc	cacccacaa	cagtcctccag	agtgtgatgt	180
tecccttcct	gtgtccatgt	gttctcactg	ttcaattccc	acctatgagt	gagaatatgc	240
gggtgttgggt	ttttttgtcc	ttgccatagt	ttactgagaa	tgatgatttc	caatttcac	300
cctgtcccta	caaaggacat	gaactcatca	ttttttatgg	ctgcatagta	ttccatgggtg	360
tatatgtgcc	acattttctt	aatccagctc	atcattgttg	gccatttggg	ttggttccaa	420
gtctttgcta	ttgtgaatac	tgccgcaata	aacatacgtg	tgcatgtgtc	tttatagcag	480
catgatttat	antcctttgg	gtatatactc	agtaattggga	tggctgggtc	aaatggnatt	540
ccaantccan	atcccttang	aattgccaca	cggactccac	aanggttgaa	ctantttaca	600
gtcccancaa	cagngtnaaa	gggtccnaan	tcnccaaaat	cctctccaag	caccngttgt	660
teccggactt	tttaanggat	tgncaatcc	aaccgggngt	caaaagggt		708

&lt;210&gt; 184

&lt;211&gt; 855

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 184

agactcacag	tctgctgggtg	ggcagagaag	acagaaacga	catgagcaca	gcaggaaaag	60
taatcaaatg	caaagcagct	gtgctatggg	aggtaaagaa	acccttttcc	attgaggatg	120
tggaggttgc	acctcctaag	gcttatgaag	ttcgcattaa	gatggagggt	gtaggaatct	180
gtcgcacaga	tgaccacgtg	gttagtggca	acctggtgac	cccccttcc	gtgatttttag	240
gccatgaggc	agccggcatc	gtggagagt	ttggagaagg	ggtgactaca	gtcaaaccag	300
gtgataaagt	catcccgtc	tttactcctc	agtgtggaaa	atgcagaggt	tgtaaaaacc	360
cggagagcaa	ctactgcttg	aaaaatgatc	taggcaatcc	tcgggggacc	ctgcaggatg	420
gcaccaggag	gttcacctgc	agggggaagc	ccattcacca	cttccttggc	accagcacct	480
tctcccagta	cacgggtggg	gatgagaatg	cagtggccaa	aattgatgca	gcctcgcccc	540
tggagaaagt	ctgcctcatt	ggctgtggat	tctcgactgg	gttatgggtc	tgcatgtaac	600
gttgccaagg	tcacccagg	ctctacctgt	gctgtgtgtg	gcctgggaag	ggtcggccta	660
tctgctgtta	tgggctgtta	aagcaactgg	aggcanccag	aatcaattgc	ggtggacatc	720
aacaaggaca	aattttgcaa	agggcaaaag	agttgggtgc	cactgaatgc	catcaaccct	780
caagnctnca	ngnaaaccca	tccaggnaag	tgctaaaang	gaatttaccg	attggagggt	840
ttggattttt	ccgtt					855

&lt;210&gt; 185

&lt;211&gt; 865

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 185

cacagatgtt	caatcaactg	atgaagcaag	tgtcaggact	tactgttgac	acagaggagc	60
ggctgaaagg	agttattgac	ctggctctttg	agaaggctat	tgatgaaccc	agtttctctg	120
tggcttacgc	aaacatgtgt	cgatgtctag	taacgctgaa	agtacccatg	gcagacaagc	180
ctggtaaacac	agtgaatttc	cggaaagctgc	tactgaaccg	ttgccagaag	gagtttgaaa	240
aagataaaga	agatgatgat	gtctttgaga	agaagcagaa	agaacttgag	gctgccagt	300
ctccagagga	gaggacaagg	cttcatgatg	aactggaaga	agccaaggac	aaagcccggc	360
ggagatccat	tggcaacatc	aagttttattg	gagaactctt	taaactcaaa	atgctgactg	420
aagccatcat	gcatgactgt	gtggtgaagc	tgctaaagaa	ccatgatgaa	gaatccctgg	480
agtgcctgtg	tcgcctgctc	accaccattg	gcaaagactt	ggactttgaa	aaagcaaagc	540

cacgtatgga	ccagtacttt	aatcaagatg	gagaaaattg	tnaaagaaag	aaaaacctca	600
tctagggatt	cggttcatgc	ttcaaagatg	ttatanacct	aaggctgttg	caattggggg	660
atctcgaaag	agcagatnaa	gggcctnaan	ctatcgaaac	gattcacaaa	ganggctaaa	720
attgaaanaa	caagaatagc	caaagggaag	gnccacaac	tcatggacca	anggagaaat	780
agaataccaa	ggtgttccaa	aaanttggcc	aaangnnggt	tggaaanacn	gttcaaaggg	840
ggccangaaa	aantccgggt	actgg				865

&lt;210&gt; 186

&lt;211&gt; 736

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 186

aaatatattgt	tctatgtatt	tacaagcctt	aaagttgctc	taaagatttc	aagagtatta	60
agagtacttt	tctcagggtg	gcactttngt	ttttttaaac	aattcttggg	gttctgtggg	120
ccacagcatt	tccttctgtt	tcaatgttat	gtatgttttg	attactattg	tgatttttta	180
aattttctga	agcaagctga	gaggcaggca	gaaagatttg	atgccaaaaa	aaaaaaaaatc	240
tttcttacct	tggtcaccct	aaactttctc	aaatctggac	taaatgctat	accttaaaac	300
aaacatgagg	tgcattctga	aggggaggga	aatttatctc	tctgcttttc	tattatacaa	360
gttgtttaca	gaaactgcaa	attaaaaaat	tacactggca	tttgcagtcc	ttaaaataaa	420
ttaaaagtgc	tcaacttttt	tttttttttg	ctaaacattt	ttttaagtat	gagtccttgt	480
ttaaaagaaa	aagattaaaa	cagaaaatat	tttctataaa	taatacatgt	attttgggtt	540
tagtgcctcc	gccctaaggt	ttgaagttaa	cttttancca	ngtacctttt	tcctccatga	600
tcaccttttt	ttctctttcc	cctctcccaa	ntccgtgcac	acgtgggggt	ttcgggcaan	660
aattggcctt	gctgnactgt	gattgggcga	anaacgttga	aaaacctttt	taaaaaaaaa	720
tacttaaaat	tggggt					736

&lt;210&gt; 187

&lt;211&gt; 946

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 187

tgaaggagct	acaggccgag	caggaggacc	gggctttaag	gagttttaag	ctgagtgtca	60
ctgtagacct	caaataccat	cccaagatta	tcgggagaaa	gggggcagta	attacccaaa	120
tccggttgga	gcatgacgtg	aacatccagt	ttcctgataa	ggacgatggg	aaccagcccc	180
aggaccaaat	taccatcaca	gggtacgaaa	agaacacaga	agctgccagg	gatgctatac	240
tgagaattgt	gggtgaactt	gagcagatgg	tttctgagga	cgtcccgtcg	gaccaccgcg	300
ttcacgcccc	catcattggt	gcccgcggca	aagccattcg	caaaatcatg	gacgaattca	360
aggtggacat	tcgcttccca	cagagcggag	ccccagacct	caactgcgtc	actgtgacgg	420
ggctcccaga	gaatgtggag	gaagccatcg	accacatcct	caatctggag	gaggaatacg	480
tgagtctctg	tgggccttgg	agccctgagg	cgccttgcca	cgtccaccgg	cctgaggccc	540
agccaggagc	ttcaggggac	aagggtggac	ttgtgtttcc	agaggcaagc	naagtgcagg	600
ggtgagcaag	cnggggggat	gctgggggtg	ctggggcaaa	ctgaccctgt	cttctgtctt	660
tcgcctgca	gctagcctga	cggtgtggac	agtnaangcg	cctgcangtt	atacatgaaa	720
ccccagcac	acgaanaagc	caanggnacc	tttcaaaaag	ctttnttggt	gccgggacca	780
acctgggacc	gccagcaacc	aatnaaaaaa	ggcnctgacn	ttaaccaagc	tcngagggaa	840
tttcccancc	tttgggggcc	caagggtggt	cccaaagaac	cctccccntt	nggggcccc	900
aaacnaatna	ttgttcaaaa	anggaacaaa	aaccctctc	aagccc		946

&lt;210&gt; 188

&lt;211&gt; 802

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 188

aaagtcaagg	ncgtttat	ccngaggnc	tgacacanga	agtggaa	naaccacggn	60
tgcggnnaa	aagtgatgaa	ggccaaagt	ctgactgaca	tgccgggtg	accaaganc	120
ggagtcn	atcntaacac	gaatgccc	gaccttggt	taatgttaa	cantggagca	180
ngtctganc	gggcacggc	angcctggag	gancggccg	acacacahcc	angcgc	240
ctccctgcg	gacctcngga	agggggaana	gcgtcaacaa	tttacgngg	gtccaaccgc	300
tggtgcaaat	tgagacaaac	cantgtgtg	ttgggttcg	gtcancangc	tggananggt	360
tcngttcnt	ttgatcanta	ncntttggg	ccccaaggga	nggtcntggg	anccacctga	420
ncccaaagc	tggaatc	ctcaaagctg	cncatgtcaa	gagccttcnc	antgtgtgtg	480
gcggtccaag	gtgcgtccc	caccacaaag	cctctggaag	gngccttggc	ctcttcctgt	540
gcgggggtt	tcatgntac	ctgcancgcc	tcactgtcca	ccaangtcag	ctaactgcag	600
gcnaagaca	ggaatnacag	ggtcagtcg	cccaacaacc	ccancatccc	ggccgcctt	660
ggctcaaac	ctgcaacctt	gctgccttc	cggaancac	aatttccac	ccttgnccc	720
ctgaaancn	cctggnctg	ggcncataa	ggcgttga	ncttccanag	gncncccc	780
gggntccca	angggccac	aa				802

&lt;210&gt; 189

&lt;211&gt; 807

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 189

aaaatggcgg	cggcagcgg	gtcgtttgt	ttccggcgt	cctgcggcg	tggcagtgg	60
agcggcctt	gagctgtgg	gaggttccag	cagcagctac	agtgcgact	aagactccag	120
tgcatctta	tcgtaaccg	gcgcggggga	gcgcagatcg	gcgccagca	atcacagaag	180
ccgacaagg	gttcaagcg	aaacatgacc	gctgagccca	tgagtgaag	caagttgaat	240
acattggtg	agaagcttca	tgacttcctt	gcacactcat	cagaagaatc	tgaagaaaca	300
agttctctc	cacgacttgc	aatgaatcaa	aacacagata	aaatcagtgg	ttctggaagt	360
aactctgata	tgatggaaa	cagcaaggaa	gagggaaacta	gctcttcaga	aaaatccaag	420
tcttcaggat	cgtcacgatc	aaagaggaaa	ccttcaattg	taacaaagta	tgtagaatca	480
gatgatgaaa	aacctttgga	tgatgaaact	gtaaatgaag	atgcgtctaa	tgaaaattca	540
gaaaatgata	ttactatgca	nagcttgcca	aaaggtacag	tgattgttca	gccagagcca	600
gtgctgaatg	aagacaaaga	tgattttaaa	ggggcctgaa	tttagaagca	gaagttaaaa	660
tgaaaactga	naatctcaa	aaacgcggga	gaanatgggc	ttcatgggga	ttgtgangcc	720
tgactggcn	tggtggacaa	caaggtcaat	caatttcaa	aaggttccat	ttatagacaa	780
cccttcaatg	caaggtcnta	ttgtta				807

&lt;210&gt; 190

&lt;211&gt; 608

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 190

ccagttcttt	ttttccctt	ttctggctca	tcactgtgaag	atccatcctc	atcagaggaa	60
agattggctt	taatttctt	taaaagcatc	ttcttggcaa	ttctattctc	aggatcattg	120
tcgtcatcat	catcatccac	tgtgacaggc	actgatttag	ataaggcttc	atctcctgaa	180
gattggcaaa	atccagtatg	tgaagacagc	actaaat	cagtcacagg	cttaattttc	240
tgttcatcgc	tgcttccctc	acctatagaa	ttctgatcat	catcttctat	atcagaagaa	300
gatgaggatg	taatgtcagc	ttgttccctt	ttagtgcttg	ttcttaggga	gtttctcttt	360
ttctccttga	caatgactgc	cttcttttta	gatgaagttc	tttgcttctt	ctttttacta	420
tcttcangaa	ctttcctcag	catcagatga	tgatgangcc	actttgtatt	tccttagtat	480
ttctctttga	acttaaat	cttctttccc	tcaattcgag	tcttttcagt	caccttatca	540
gaagagttac	aancatcttc	tttcatggga	agtatcaaga	tgatgaacaa	tcttgtcnct	600
tccttgaa						608

<210> 191  
 <211> 786  
 <212> DNA  
 <213> Homo Sapiens

<400> 191  
 gcactttgct gatggtggac agtgaggagg agtacttccc tgaagagatc gccaaagctcc 60  
 ggagggacgt ggacaacggc ctctcgctcg tcactttcag tgactggtag aacactttctg 120  
 ttatgagaaa agtgaagttt tatgatgaaa acacaaggca gtggtggatg ccggataccg 180  
 gaggagctaa catcccagct ctgaatgagc tgctgtctgt gtggaacatg gggttcagcg 240  
 atggcctgta tgaaggggag ttcaccctgg ccaaccatga catgtattat gcgtcagggt 300  
 gcagcatcgc gaagtttcca gaagatggcg tcgtgataac acagactttc aaggaccaag 360  
 gattggaggt tttaaagcag gaaacagcag ttgttgaaaa cgtccccatt ttgggacttt 420  
 atcagattcc agctgagggt ggaggccgga ttgtactgta tggggactcc aattgcttgg 480  
 atgacagtca ccgacagaag gactgctttt ggcttctgga tgccctctc cagtacacat 540  
 cgtatgggggt gacaccgcct agcctcagtc actctgggaa ccgccagcgc cctcccantt 600  
 ggagcaagct cagtcaactcc agagaggatg gaaggaaacc atctcatcgg tactccaagg 660  
 ttctggangg ccatttgagg aaacccaaaac ctggggctcn acaaccctgt ccangcctgt 720  
 nctgggccaa gccaanagcc tttaaaccan aacgngccc aattaaccct ttggaaaaca 780  
 tcagaa 786

<210> 192  
 <211> 819  
 <212> DNA  
 <213> Homo Sapiens

<400> 192  
 gacgggtaat acatatttat tgaaaatttt cttaccgcac aatggtgaaa tcaagacctc 60  
 aaattacaaa acatggtggc aggtgatact tacaaaaata aagcgaagggt ctatgtttta 120  
 cagattttgt catgtttcct tcaaatctca gtctgtactg tcattaaaaa gatcatggaa 180  
 tctatgttgt tcctcatgat ggaatagtaa aaaaactgca ttccactgac aaaaaaata 240  
 gctttgcttc caaatagcac aagtctttta agtgactttt cccaacaata aatatagaaa 300  
 atagccttta acaagcgtct ttagccttgg tcagggttgt atcatttgtt tggaagtag 360  
 atccttcccc tgcagtcaga agaccccgaga cagcctttcc agttctcccg agtctttggt 420  
 gcgcacagct gccggcgagg agtctcactg gcggcagagc cactaagtc ctcctgacgg 480  
 gatccacagg aatcttctcg atgtaccagg agcctctgcc catcacagga gggcaggccc 540  
 atgtagaaca agactctaac aaacctgcag ctggaaactg gattcctttt aaaccaaccc 600  
 gccaacacag ctggntcac ccaccanccg cgtccgtnaa aggggctctc tgggcctcac 660  
 gggtcagcca ggttgccgggt cacaccgaaa ggggtccttg ggccgggtgaa cctgctgcat 720  
 gaanctggcg gggngcttca accctgggct tcctccggct ttcggcctgg ncctgggcct 780  
 tgttgaantt gntccacaaa agaaaggcca ggagcaaca 819

<210> 193  
 <211> 744  
 <212> DNA  
 <213> Homo Sapiens

<400> 193  
 cagtcccagc acaacctgca ggggcatctg tccagcctgt tggccaggct ccggcagcag 60  
 tgtctgctgt acctactggc agtcagattg caaatattgg tcagcaagca aacataccta 120  
 ctgcagtgcg gcagccctct acccagggtc caccttcagt tattcagcag ggtgctctc 180  
 catcttcgca agtgggtcca cctgctcaaa ctgggattat tcatcaggga gttcaaacta 240  
 gtgctccaag ccttctccta caattgggta ttgcatccca aagttccttg ttaactgtgc 300  
 ctcccagcc acaaggagta gaatcagtag ctcaaggaat tgtttcacag cagttgcctg 360  
 cagttagttc tttgccctct gctagtagta tttctgttac aagtcagggt agttcaactg 420

gtccttctg	aatgccttct	gccccacaa	acttggttc	accacaaaat	atagcacaaa	480
cccttgctac	ccaaaatggt	aatttggttc	aaagtgttaa	gtcaacctcc	cttgatagca	540
actaatacaa	atttgccttt	ggcacacag	ataccactaa	gttctacca	agttctccgc	600
acaatcatta	gctcaggcaa	ttggaagcca	aattgaagat	gccaggcgtt	gcagcggagc	660
cctccttaag	ttggcttacc	tcaagactaa	tcagttggtg	acaattgggg	ggaatgttca	720
gcaagtttca	agattgggaa	gtta				744

<210> 194  
 <211> 567  
 <212> DNA  
 <213> Homo Sapiens

<400> 194						
atcaacattt	atatgcttta	ttgaaagttg	acaagtgcaa	cagttaaata	cagtgcaccc	60
ttacaattgt	gtagagaaca	tgacagaaa	catatgcata	taactactat	acaggtgata	120
tgacagaaac	cctactggga	aatccatttc	attagttaga	actgagcatt	tttcaaagta	180
ttcaaccagc	tcaattgaaa	gacttcagtg	aacaaggatt	tacttcagcg	tattcagcag	240
ctagatttca	ggattacaca	aagtgaagta	ctgtgccaaa	ttcttaaaat	ttctttaggt	300
gtgggttttg	tcagttagca	gtttttatgt	agatcnatat	ntaaaagtcc	acacctctc	360
agacangcca	atgaaacnac	taaatttcaa	tctgtacaan	ctaaatagta	attacagtcc	420
ttcangtgmn	caangatact	tacaccacat	anacaaatnt	acnntacgca	naacaacctt	480
catggggaag	gatagcccta	ggtccccagc	tancctgtca	ccatttttgt	cactctcata	540
gttttggtgt	ccaatccatt	ggttttg				567

<210> 195  
 <211> 771  
 <212> DNA  
 <213> Homo Sapiens

<400> 195						
gagagaacag	agcaacaaga	gcacaaagaa	aaaaagaaga	aatgaacaga	ataagaacat	60
tagttgacaa	tgcatacagc	tgtgatccaa	ggataaaaaa	gttcaaggaa	gaagaaaaag	120
ccaagaaaga	ancanaaaag	aaagcaaaag	cagaagctaa	acggaaggag	caagaagcta	180
aagaaaaaca	aagacaagct	gaattagaag	ctgctcgggt	agctaaggag	aaagaagagg	240
aggaagtcag	acagcaagca	ttgctggcaa	agaaggaaaa	agatatccag	aaaaaagcca	300
ttaagaaggga	aaggcaaaaa	tttcgaaact	catgcaagac	ctggaatcat	ttttctgata	360
atgaggcaga	gcggtttaa	atgatggaag	aagtggaaaa	actttgtgat	cggcttgaac	420
tggaagctt	acagtgttg	aatgaaacac	tcacatcatg	cacaaaagaa	gtnggaaagg	480
ctgctttgga	aaaacagata	gaagaaataa	atgagcaaat	cagaaaagag	aaagagggaag	540
ctgaggctcg	tatgcgacaa	gcatctaaga	acacagagaa	atcaactggt	ggaaggtgga	600
aaatggaagt	aaaaattggg	cacaaagatg	ntctacaatt	actaattna	aagctgtgaa	660
tcctgttncc	tgctggaaca	aantcaagat	gggaagttat	tgccaantac	atgaacatac	720
attcctcccn	cngggngtcc	aaaaagaaac	tgccaaaagn	atgtttattg	g	771

<210> 196  
 <211> 561  
 <212> DNA  
 <213> Homo Sapiens

<400> 196						
acagtatttt	cagttttatt	ataaaaatgc	acacacaaca	aagattgtca	tttcttggtc	60
ctacttgcat	tcagcacttg	ttcttgagca	gctttctttg	cttttaccat	ctcgacaagt	120
tccttgatc	gtttcatgca	gtccttcttt	gtcctgccag	gcaccgcttc	tgctattttt	180
tcccatcttt	caggtgtatt	tactgggtat	gttttcaaag	cttgttccaa	aagcttctgt	240
tcttctgttg	tccaaggggt	gaagtctgta	tatggacctt	caaatcgctc	tgaaggcggt	300

gcgttgctctg	cttgaggtac	cactccatgt	tcttttttga	acttatcaaa	tgccttttta	360
tttangtcag	ctttttgatg	agggtcaagt	ttttggagac	tctttgcttt	gccaataaca	420
tctttggnan	gttcttttga	ctccaagagg	aagaangtnt	ngttcatgtn	antangaan	480
aacgtcccat	ctggaanttt	tgttcnacca	gggaacanac	tcacaagctt	taactaagta	540
antgtngnat	naccgncngn	c				561

&lt;210&gt; 197

&lt;211&gt; 691

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 197

cgccacaacc	acaaccagca	ccacagcctc	caccacccca	gcagcagccg	caacagcagc	60
cgcagcctca	gccccagcag	cctccacccc	caccccctcc	ccagcagcag	cccccgctgt	120
cacagtgtan	tatgaataac	agtttcaccc	cagtccttat	gatcatggag	ataccagaat	180
ctggaagcac	tgggaacata	agtatctatg	agaggattcc	aggggatttt	ggtgccggca	240
gctactctca	accatcagcc	accttcagcc	tagccaagct	gcagcagctg	accaacacca	300
ttatggaccc	tcatgccatg	ccttatagcc	attctcctgc	tgtgacttcc	tatgcaacca	360
gtgtttctct	gtccaataca	ggactggctc	agctggctcc	atctcatccc	ttagctggga	420
ctcctcaagc	acangccacc	atgacgccac	ccccaaactt	ggcatccact	accatgaacc	480
tcacatctcc	tctgcttcag	tgcaacatgt	ctgccaccaa	cattggcatt	cctcacacgc	540
aggagattgc	aagggcaaat	gccagtgaag	gggcacattt	ccatccgctc	caagtttggc	600
ggcactgccc	tctgcnctg	ctcaccanna	ngcagctggg	atgggcccgn	tccccaatcg	660
ggcagtttgc	caatgcaang	gcttgggccc	t			691

&lt;210&gt; 198

&lt;211&gt; 646

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 198

acctatccct	ggagcaagta	ataggaagag	aatgggcaaa	ctggttgcac	gagagaaaag	60
agaatggagt	tgggagcaac	acatgaactt	gcgttataac	attctgctgt	ccagatctgc	120
cctactgtgc	tgggtgctcg	tctgtccctc	ttctcattag	ccactcacag	gagaggtgct	180
tgtgcactct	gattcacagg	ggatgaactc	aggatctcaa	aagacataca	aaaactanag	240
gtatgtatca	cttaagtagc	tacgaaactc	acacgctgat	ctcccttctg	acacacatct	300
gcgccatctc	ttccaacata	aaatanactg	tttcaatggg	ttgtcagtta	tttttcaa	360
cactaanatg	tacagtcac	caccaacaat	ttaagaaaga	acctaagagg	caaatcactg	420
gggactgcta	tttgagtttt	atcagtcaaa	ggctcaagca	tcaanaccct	cagttancat	480
ttcaaagtac	atactangaa	acancgaggc	tgggtggcgt	tgtgtgcgtt	anggctgatt	540
caccaggtgg	taaancaaca	aagnggttaa	gnctccnctt	tttggattgt	taattgncca	600
tcctcnattc	ctccaaaagg	gctgggattt	ggatttggca	aagtca		646

&lt;210&gt; 199

&lt;211&gt; 811

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 199

cggcggcgct	ccaggtgctg	acagcgcgag	agagcgcggc	cctcaggagc	aaggcgaatg	60
tatgacaaca	tgtccacaat	ggtgtacata	aaggaagaca	agttggagaa	gcttacacag	120
gatgaaatta	tttctaagac	aaagcaagta	attcaggggc	tggaaagctt	gaagaatgag	180
cacaattcca	ttttacaaag	tttgctggag	acactgaagt	gtttgaagaa	agatgatgaa	240
agtaatttgg	tggaggagaa	atcaaactg	atccggaagt	cactggagat	gttggagctc	300
ggcctgagtg	aggcacaggt	tatgatggct	ttgtcaaata	acctgaatgc	tgtggagtc	360

gagaagcaga	aactgcgtgc	gcaggttcgt	cgtctgtgcc	aggagaaatca	gtggctacgg	420
gatgaactgg	ccaacacgca	gcagaaactg	cagaagagt	agcagtctgt	ggctcaactg	480
gaggaggaga	agaagcatct	ggagtttatg	aatcagctaa	aaaaatatga	tgacgacatt	540
tccccatccg	aggacaaaga	cactgattct	accaaagagc	ctctggatga	ccttttcccc	600
aatgatgaag	acgacccagg	gcaaggaatc	cagcagcagc	acagcagtgc	agccgcggct	660
gccagcaag	gcngctacna	agattccccg	gcggctgcgg	acgctccaca	acctgggtga	720
ttcagttcgc	ctcnnccang	ggccgctacc	aaggtaacct	gttgccccct	cctggcaaag	780
caaggnccct	gggaagggan	cctgggagga	a			811

&lt;210&gt; 200

&lt;211&gt; 763

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 200

acacagtaaa	tggattttat	taatacagtt	tatattacta	agtacatata	tggcaaagct	60
acatgtatac	agaaatcagg	aaccccccca	aaaaggacag	cagcaccgaa	aggaatggcc	120
agttcacaga	gaggtgcagc	tctgacaaga	tcctagaggc	tgctagacac	agcgggcagc	180
actggagaga	gaagggaagc	tgccgggagc	gccacccgtc	atgcaggaga	cagtgtgaga	240
gtcacgggcg	gctaggccat	gggacgctga	gcaagtcagt	taaccagccc	gagcttcatt	300
ttcctcattt	cctccccctc	gtcagggcca	ctctcgtact	tgaccacgtc	cacgttgagg	360
ctctcacggc	tcttgcgctt	ctccatgttc	tcagggtcat	tgagcacttc	tgccaccctc	420
tgtttgtgaa	cattgtcaag	accctgttta	cgagacctca	tagcagcttc	ttctaacgtt	480
tctgcagctt	caaatattgcc	ttgacgtctg	taaagtgtcc	caaggttttt	tagagtgggt	540
gtaacagttg	gnctatcaac	tttgcanget	ttgtaccaac	cgccatactc	tccaaaaaga	600
tgtcccattc	ttttgctttc	ctttgcattc	ttctctttcc	tcaacaatgc	atccaaatgg	660
gttttaattc	aacatctaca	gaaccaaact	ccctttcatg	tgacacaagt	agaatcnctt	720
tgtacantgt	ttccgccttc	cttgaacntt	ccctgtttca	aaa		763

&lt;210&gt; 201

&lt;211&gt; 717

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 201

ggcgaatgta	tgacaacatg	tccacaatgg	tgtacataaa	ggaagacaag	ttggagaagc	60
ttacacagga	tgaaattatt	tctaagacaa	agcaagtaat	tcaggggctg	gaagctttga	120
agaatganca	caattccatt	ttacaaagtt	tgctggagac	actgaagtgt	ttgaagaaag	180
atgatgaaag	taatttgggt	gaggagaaat	caaacatgat	ccggaagtca	ctggagatgt	240
tggagctcgg	cctgagtgag	gcacaggtta	tgatggcttt	gtcaaatcac	ctgaatgctg	300
tggagtccga	gaagcagaaa	ctgcgtgcgc	aggttcgtcg	tctgtgccag	gagaatcagt	360
ggctacggga	tgaactggcc	aacacgcagc	aagaaactgc	agaagagtga	gcagtctgtg	420
gctcaactgg	aggaggagaa	gaagcatctg	gagtttatga	atcagctaaa	aaaaatatga	480
gacgacattt	ccccatccga	gggacaaaga	cactgattct	accaaagagc	ctccggatga	540
ccttttcccc	aatgatgaag	acgaccccag	ggcaagggaa	tccancagca	gcacagcaan	600
ttgcagccgc	ggctgcccaa	gcaaggcggc	tacgagattc	ccgccgcggc	tgccggacgc	660
tccacaacct	ggtnatccaa	tacgccctcn	caaggggcgc	taccaagggg	aactgtt	717

&lt;210&gt; 202

&lt;211&gt; 647

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 202

cagtcggagt	gagtttatta	gaagttagaa	agacacaaat	acacaaatca	ctgagcactt	60
------------	------------	------------	------------	------------	------------	----



caagattagt	agagaaaagc	agaatgccca	aatttcacac	acagactaca	cagcaaatgc	120
tactggggca	tatcctaggg	agaccggag	tccgagcggg	gccccagg	ctctaagtac	180
cacggagcac	gtgcggcaca	tgcttgctg	taaggcttag	ttacgtcaac	aggtcacagt	240
catgccattg	caacaacacc	ttgtgtgaca	cttaactacc	tgttaccaa	gtgaacagct	300
aatcgctctt	aatttttaaa	ctcgtgtatt	acacagtaaa	tggattttan	taatacagtt	360
tatattacta	agtacatatc	tggcaaagct	acatgtatac	agaaatcagg	aacccccca	420
aaaaggacag	cagcaccgaa	aggaatggcc	agttcacaga	nangtgcagc	tctgacaaga	480
tcctagangc	tgctagacac	agcgggcagc	actggganaa	gagaagggaa	gctgcgggag	540
gcgccaaccc	gtcatgccag	gggacagtgt	ganagtcacg	ggncgggcta	ngccaatggg	600
aacnctgan	gcaangcagt	ttaaccangc	cccnggctt	caatttt		647

&lt;210&gt; 203

&lt;211&gt; 786

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 203

cagccatgga	cgccatcaag	aagaagatgc	agatgctgaa	gctggacaag	gagaacgcca	60
tcgaccgcgc	cgagcaggcc	gaagccgaca	agaagcaagc	tgaggaccgc	tgcaagcagc	120
tggaggagga	gcagcaggcc	ctccagaaga	agctgaagg	gacagaggat	gaggtggaaa	180
agtattctga	atccgtgaag	gaggcccagg	agaaactgga	gcaggccgag	aagaaggcca	240
ctgatgctga	ggcagatgtg	gcctccctga	accgccgcat	tcagctggtt	gaggaggagc	300
tggaccgggc	ccaggagcgc	ctggctacag	ccctgcagaa	gctggaggag	gccgagaagg	360
cggctgatga	gagcgagaga	ggaatgaagg	tcctcgaaaa	ccggggccatg	aaggatgagg	420
agaagatgga	actgcaggag	atgcagctga	aggaggccaa	gcacatcgct	gaggattcag	480
accgcaaata	tgaagaggtg	gccaggaagc	tggtgatcct	ggaaggagag	ctggagcgct	540
cggaggagan	ggctgaggtg	gccgagagcc	gagccagaca	gctggaggag	gaacttcgaa	600
ccatggacca	ngccctcaag	tcctgatgg	cctcanagga	ggagtattcc	accaaagaag	660
attaatatga	agaggagatn	aaactgttgg	anggagaagc	tgaanggagg	ctganacccc	720
aagcaaaagt	ttgccnaaaa	ggtctgtggg	caaaaatttg	gngnaaaac	catcnaatga	780
acctta						786

&lt;210&gt; 204

&lt;211&gt; 738

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 204

ggctagtaac	atcagtttta	ttgggttggg	gtggcaacca	tagcctggct	gggggtggg	60
ctggccctca	caggttggtg	agttccagca	gggtctggtc	caaggtctgg	tgaatctcga	120
cgttctctct	cttggcactg	gccaaagtct	cttctaggtc	atcgatggtt	ttctccaaact	180
ttgccacaga	cctctcggca	aactctgctc	gggtctcagc	ctccttcagc	ttctctctcca	240
acagtttgat	ctcctcttca	tatttatctt	ctttggtgga	atactctctc	tctgaggcca	300
tcagggactt	gagggcctgg	tccatggttc	gaagtctctc	ctccagctgt	ctggctcggc	360
tctcgccac	ctcagccctc	tcctccgagc	gctccagctc	tccttcagg	atcaccagct	420
tcctggccac	ctcttcatat	ttgcggtctg	aatcctcagc	gatgtgcttg	gcctccttca	480
gctgcatctc	ctgcagttcc	atcttctcct	catccttcat	ggcccggttt	tenatgacct	540
tcattctctc	ctcgtcttca	tcagcccggc	ttctcggctc	ctccagcttc	tgcanggctg	600
tanccaangc	gctcctgggc	ccggtcaanc	tcctcctcaa	caagctgaat	gcggcggttc	660
aaggaaggca	anatctgct	caacaacaat	tggccttctt	cncggccngc	tccaattttc	720
ncngggggcc	tccttcaa					738

&lt;210&gt; 205

&lt;211&gt; 818

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 205

gctagtaaca	tcagttttat	tgggttgggg	tggcaaccat	agcctggctg	ggggtggggc	60
tggccctcac	aggttggtga	gttccagcag	ggtctgggtcc	aaggtctggt	gaatctcgac	120
gttctcctcc	ttggcactgg	ccaaggtctc	ttctaggtca	tcgatgggtt	tctccaactt	180
tgccacagac	ctctcggcaa	actctgctcg	ggtctcagcc	tccttcagct	tctcctccaa	240
cagtttgatc	tcctcttcat	atttatcttc	tttgggtgaa	tactcctcct	ctgaggccat	300
cagggaactg	agggcctggt	ccatgggttcg	aagttcctcc	tccagctgtc	tggctcggct	360
ctcggccacc	tcagccctct	cctccgagcg	ctccagctct	ccttccagga	tcaccanctt	420
cctggccacc	tcttcatatt	tgcggtctga	atcctcagcg	atgtgcttgg	cctccttcag	480
ctgcatctcc	tgagtttcca	tcttctcctc	atccttcaag	gcccggtttt	cgatgancct	540
tcattcctct	ctcggtcttc	atcagccgcc	ttctcgggct	cntccaagct	tctgcaaggc	600
tgtanncann	ggctcctggg	gcccgggtnc	aagntcctcc	tcaaacangc	tnaaatncca	660
gagggtttca	nggaagggcc	aaaatctggc	ctnnagnatc	aattggcttt	cttncncggg	720
nctngcncca	attttctccn	ggggcctncc	tttcangggg	tnaagaanaa	atttcaaatt	780
caacctcggt	cccccttnaa	cntcntnctg	gaagggct			818

&lt;210&gt; 206

&lt;211&gt; 927

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 206

cagccatgga	cgccatcaag	aagaagatgc	agatgctgaa	gctggacaag	gagaacgcca	60
tcgaccgcgc	cgagcaggcc	gaagccgaca	agaagcaagc	tgaggaccgc	tgcaagcagc	120
tggaggagga	gcagcaggcc	ctccagaaga	agctgaaggg	gacagaggat	gaggtggaaa	180
agtattctga	atccgtgaag	gaggcccagg	agaaactgga	gcaggccgag	aagaaggcca	240
ctgatgctga	ggcagatgtg	gcctccctga	accgcgcgat	tcagctggtt	gaggaggagc	300
tggaccgggc	ccaggagcgc	ctggctacag	ccttgacaaa	gctggaggag	gccgagaagg	360
cggctgatga	gagcgagaga	ggaatgaagg	tcacgaaaaa	ccgggccatg	aaggatgagg	420
agaagatgga	actgcaggag	atgcagctga	aggaggccaa	gcacatcgct	gaggattcag	480
accgcaaata	tgaagagggtg	gccaggaagc	tggtgatcct	ggaaggagag	ctggagcgct	540
cggaggagag	ggctgagggtg	gccgagagcc	gagccagaca	gctggaggag	gaacttcgaa	600
ccatggacca	ggcctcaag	tccttgatgg	cctcagagga	ggagtattcc	accaaagaag	660
ataaatatga	agaggagatc	aaactgttgg	aggagaagct	gaaggaggct	gagacccgag	720
cagagtttgc	cgagagggtct	gtggcaaaagt	tggagaaaac	catcgatgac	ctagaagaga	780
ccttggccag	tgccaaggag	gagaacgtcg	agattcacca	gaccttggac	cagaccctgc	840
tggaactcaa	caacctgtga	gggccagccc	cacccccagc	caggctatgg	ttgccacccc	900
aaccaataa	aactgatgtt	actagcc				927

&lt;210&gt; 207

&lt;211&gt; 910

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 207

ggaagatggc	ggcgccggtt	ccacagcggg	cgtggaccgt	ggagcagctg	cgcagtgagc	60
agctgcccac	gaaggacatt	atcaagtttc	tgcaggaaac	cggttcagat	tcgtttcttg	120
cagaacataa	attattagga	aacattaaaa	atgtggccaa	gacagctaac	aaggaccact	180
tggttacagc	ctataaccat	ctttttgaaa	ctaagcgttt	taagggtact	gaaagtataa	240
gtaaatgtgc	tgagcaagta	aaaaatgtga	agcttaatga	agataaaccc	aaagaaacca	300
agtctgaaga	gaccctggat	gagggtccac	caaaatatac	taaatctgtt	ctgaaaaagg	360
gagataaaac	caactttccc	aaaaagggag	atgttggttca	ctgctggtat	acaggaacac	420
tacaagatgg	gactgttttt	gatactaata	ttcaaacaag	tgcaagaag	aagaaaaatg	480

ccaagccttt	aagttttaag	gtcggagtag	gcaaagttat	cagaggatgg	gatgaagctc	540
tcttgactat	gagtaaagga	gaaaangctc	gactggagat	tgaaccagaa	tgggcttacg	600
gaaagaaagg	acagcctgat	gccaaaattc	caccaaatgc	aaaactcact	tttgaagtgg	660
nantatggga	tattgattga	aatagcagtg	cntcagctcn	aggntattag	caacaatgat	720
taaaacntgg	nettgaaaga	aaatttcaca	actagttnag	aaacttggtta	ccaaatggta	780
aaggaaaaag	tcaactggga	aaaattcaag	gnggttaana	aaaanttggt	ttacctgggg	840
cccaagcctt	ttgngaaaaa	aaaanccctt	tatgaaancc	ccngggccca	aaaanacttt	900
tccnaaaacc						910

&lt;210&gt; 208

&lt;211&gt; 745

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 208

gacagtggat	caatttttat	tgagccactt	aagttttacaa	catgaggtaa	aaggaaaaag	60
ttctccttga	ccagtatttt	acacagctgt	aggaaagtat	tttagaccag	ggattcataa	120
gggatttatc	tctcaaaagc	tgggaccaag	taaacaaatt	ttattaactc	cttgaatttt	180
ccagttgact	cttcctttac	aatagtaaca	agttcctaact	agttgtgtaa	atttcttcaa	240
ggccaagt	tatcattggt	gctaatatcc	ttagagctga	agcactgcta	tttcaatcaa	300
tatccactaa	ttccacttca	aaagtgagtt	ttgcatttgg	tgggaattttg	gcacagggtc	360
gtcctttctt	tccgtaagcc	cattctgggt	caatctccag	tcgagccttt	tctcctttac	420
tcatagtcaa	gagagcttca	tcccatcctc	tgataacttt	gcctactccg	accttaaaac	480
ttaaaggctt	ggcatttttc	ttcttctttg	cacttggttg	aatattagta	tcaaaaacag	540
tcccatcttg	tagtgttcct	gtataccaag	caagtgaaca	acatcnccct	ttttgggaaa	600
gttggtttaa	cccccttttt	cagaacagat	ttaagtanat	tttgggggac	cctcanccaa	660
ggggctcnctt	canaactggg	tttccttggg	gtttaacctt	cattnagcct	canaattttt	720
tacntggccn	cagacacttt	tactt				745

&lt;210&gt; 209

&lt;211&gt; 965

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 209

ggaagatggc	ggcggccgtt	ccacagcggg	cgtggaccgt	ggagcagctg	cgcagtgagc	60
agctgcccac	gaaggacatt	atcaaagttc	tgaggaaca	cggttcagat	tcgtttcttg	120
cagaacataa	attattagga	aacattaaaa	atgtggccaa	gacagctaac	aaggaccact	180
tggttacagc	ctataacccat	ctttttgaaa	ctaagcgttt	taagggtact	gaaagtataa	240
gtaaagtgtc	tgagcaagta	aaaaatgtga	agcttaatga	agataaaccc	aaagaaacca	300
agtctgaaga	gaccctggat	gagggtccac	caaaatatac	taaactctgt	ctgaaaaagg	360
gagataaaac	caactttccc	aaaaaggagg	atgttggttca	ctgctggtat	acaggaaacac	420
tacaagatgg	gactgttttt	gataactaata	ttcaaacaag	tgcaaagaag	aagaaaaatg	480
ccaagccttt	aagttttaag	gtcggagtag	gcaaagttat	cagaggatgg	gatgaagctc	540
tcttgactat	gagtaaagga	gaaaaggctc	gactggagat	tgaaccaaga	atgggcttac	600
ggaaagaaag	gacagcctga	tgccaaaatt	ccaccaaatg	caaaactcac	ttttgaagtg	660
gaattagtgg	atattgattg	aaatagcagt	gcttcagcct	ccaagggata	ttagcaacaa	720
tgaataaaac	tttggncctg	angaaaattt	acacaacctt	gtttagaacc	ttgttactat	780
tgttaaagga	aagaagtcaa	ctgggnaaaa	ttcaaggagg	ttaataaaat	ttgtttactt	840
ggncccagcc	ttttgagaga	ttaatccctt	angaaanccct	ggtccnaaaa	tactttccta	900
aagnctgtgt	taaataccng	ggncaagggn	gaaacttttt	ccctttaccn	caagggtggt	960
aaact						965

&lt;210&gt; 210

&lt;211&gt; 867

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 210

caagacagt	gatcaat	tttt	tattgagcca	cttaagttta	caacatgagg	taaaaggaaa	60
aagttctc	tgaccagt	at	tttacacagc	tgtaggaaa	ag	tatttttagac	120
taagggatt	atctctcaa	ag	ctgggacc	aagtaaaca	at	ttttattaa	180
tttccagtt	actcttc	ctt	tacaatagta	acaagttcta	actagttgtg	taaatttc	240
caaggcca	ag	ttttatcatt	gttgctaata	tccttagagc	tgaagcactg	ctatttcaat	300
caatatcc	ac	taattccact	tcaaaagtga	gttttgcatt	tgggtggaatt	ttggcatcag	360
gctgtcc	ttt	cttcgtaa	gccattctg	gttcaatctc	cagtcgagcc	ttttctc	420
tactcata	gt	caagagagct	tcacccatc	ctctgataac	tttgccact	ccgaccttaa	480
aacttaa	agg	cttggcattt	ttcttcttct	ttgcacttgt	ttgaatatta	gtatcaaaa	540
cagtc	ccatc	ttgtagtgtt	cctgtatacc	angcagtga	caacatctcc	ctttttggga	600
aagttt	gggt	ttaaactcc	ct	ttttcagaa	caagatttag	taaaattttg	660
caatcca	agg	gtctcttcaa	nacttgggtt	cctttgggg	gt	ttaancctca	720
acaatttt	ttt	acttggctca	agaaancntt	tacttaaacc	tttcagggtac	cctttaaaaa	780
nccttang	tt	ttaaaaaaa	tgggttataa	gggctggtaa	ccnaagggtg	ggcccttgg	840
aaccngtt	ct	tggggcaaaa	tttttaa				867

&lt;210&gt; 211

&lt;211&gt; 972

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 211

ggaagatgc	ggcgccgtt	ccacagcggg	cgtggaccgt	ggagcagctg	cgcagtgagc	60
agctgccca	gaaggacatt	atcaagtttc	tgaggaaca	cggttcagat	tcgtttcttg	120
cagaacata	attattagga	aacattaaaa	atgtggccaa	gacagctaac	aaggaccact	180
tggttacagc	ctataaccat	ctttttgaaa	ctaagcggtt	taagggtact	gaaagtataa	240
gtaaagtgtc	tgagcaagta	aaaaatgtga	agcttaatga	agataaacc	aaagaaacca	300
agtctgaaga	gaccctggat	gagggtccac	caaaatatac	taaatctgtt	ctgaaaagg	360
gagataaa	ac	caactttccc	aaaaaggag	atgttgttca	ctgctgggtat	420
tacaagat	gg	gactgttttt	gatactaata	ttcaacaag	tgcaaagaag	480
ccaagc	ctt	aagttttaag	gtcggagtag	gcaaagttat	cagaggatgg	540
tcttgact	at	gagtaaagga	gaaaaggctc	gactggagat	tgaaccagaa	600
gaaagaa	agg	acagcctgat	gccaaaatc	caccaaagtc	aaaactcact	660
aattagt	gga	tattgattga	aatagcagtg	cttcagctct	aaggatatta	720
taaaact	tgg	ccttgaagaa	atttacacaa	ctagttagaa	cttggtacta	780
agagtca	act	ggaaaattca	aggagttaat	aaaatttggt	tacttgggtcc	840
gagataa	atc	ccttatgaat	ccctgggtcta	aaatactttc	ctacagctgt	900
ggtcaagg	ag	aactttttcc	ttttacctca	tgttgtaaac	ttaagtggct	960
tgatccact	g	tc				972

&lt;210&gt; 212

&lt;211&gt; 817

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 212

aacggctcta	agggttatgc	ctttgtccac	ttcgagacc	aagaggctgc	cgacaaggcc	60
atcgagaaga	tgaatggcat	gtcctcaat	gaccgcaaag	tatttgtggg	cagattcaag	120
tctcgcaa	ag	agcgggaagc	tgagcttga	gccaaagcca	aggaattcac	180
atcaaaa	act	ttggggaaga	ggtggatgat	gagagtctga	aagagctatt	240
ggtaagacc	cc	taagtgtcaa	ggtgatgaga	gatcccaatg	ggaaatccaa	300

tttgtgagtt	acgaaaaaca	cgaggatgcc	aataaggctg	tggaagagat	gaatggaaaa	360
gaaataagt	gtaaaatcat	atttgtagc	cgtgcacaaa	agaaagtaga	acggcaggca	420
gagttaaaac	ggaaatttga	acagttgaaa	caggagagaa	ttagtcgata	tcagggggtg	480
aatctctaca	ttaagaactt	ggatgacact	attgatgatg	agaaattaag	gaaagaattt	540
tctccttttg	gatcaattac	cagtgtctaa	gtaatgctgg	aggatggaag	aagcaaagg	600
tttggcttcg	tctgcttctc	atctcctgaa	gaancaacca	aagcagtcac	tgagatgaa	660
tggaacgatt	ttggggctcc	aaccactata	tggtgccttg	gccccanagg	aagggaanag	720
agaaaggntc	accttgacca	accagtttta	tgcaacgaan	tggtctggga	tngagaacca	780
cttcccgcc	aatgccaatc	tttaaantca	gnttcca			817

&lt;210&gt; 213

&lt;211&gt; 756

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 213

ctttgatgtg	attaaggga	agccaatccg	catcatgtgg	tctcagagg	atccctcttt	60
gagaaaatct	ggtgtggga	acgtcttcat	caagaacctg	gacaaatcta	tagataacaa	120
ggcactttat	gatactttt	ctgcttttgg	aaacatactg	tcctgcaagg	tggtgtgtga	180
tgagaacggc	tctaagggtt	atgcctttgt	ccacttcgag	acccaagagg	ctgccgacaa	240
ggccatcgag	aagatgaatg	gcattgctcc	caatgaccgc	aaagtatttg	tgggcagatt	300
caagtctcgc	aaagagcggg	aagctgagct	tgagccaaa	gccaaggaat	tcaccaatgt	360
ttatatcaaa	aactttgggg	aagagtgga	tgatgagagt	ctgaaagagc	tattcagtca	420
gtttgtaag	accctaagt	tcaagtgat	gagagatccc	aatgggaaat	ccaaaggctt	480
tggtctttgt	agttacgaaa	aacacgagga	tgccaataag	gctgtggaag	agatgaatgg	540
aaaagaaata	agtgttaaaa	tcatatttgt	aggccgtgca	caaaagaaag	tagaacggca	600
agcagagtta	aaacggaaat	ttgaacagtt	gaaacaggag	agaattagtc	gatatcangg	660
ggtgaatccc	cacattaaga	acttgatga	cactattgat	gatgaagaaa	attaaggaaa	720
agaattttcn	ccntttggga	tnaattaaca	agttgc			756

&lt;210&gt; 214

&lt;211&gt; 728

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 214

atggagattt	tttttcttta	ttgggaaacg	taagacttgg	gtacatcaaa	taaaaccaat	60
ttctggggga	aaaaatcaaa	ncccacaata	aaaaaaaagt	taacactgtc	tgggccacag	120
cagaacccaa	agaacatatt	cgtataattg	aaaaattcta	ggtgcttcat	aattgacctt	180
ttgatacaaa	atgacctatt	aaatttgcaa	tttgaatcc	ttggtgttga	ggtccatagg	240
acaagctagg	aagtcttcaa	accttgagtt	gaattccata	aggggttatt	tggtctttga	300
atcggttttt	ccttgtctaa	gaggtagcag	cagcaacagc	gccaccttc	tgggcagctt	360
ctttcttggc	atgatgagcc	tgtagaactg	ctacagcttc	atccaccttg	gagcggagag	420
actcggggga	ctctaactatg	tgacgagct	canagtgtgc	tatctccagc	agcattcccc	480
tgatcttccc	agccagattt	gaatgcattg	tttggatgan	tggaacaag	cgttctccca	540
gcatctgctt	ctgttcctgg	gggggtgctg	canccaacag	gaggcaatca	ntggntccng	600
gccctgcaca	tggaacgcaa	ggctgggggtg	cctgcaaaan	gctgtatggc	aaggatgaag	660
ggctgccgac	actgggaagg	cggtattngt	aggggggcaa	aaanccggg	gaagcancag	720
caacaaca						728

&lt;210&gt; 215

&lt;211&gt; 710

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 215

atggnatatt	tttttcttta	ttgggaaacg	taagacttgg	gtacatcaaa	taaaaccaa	60
atctggggga	aaaaatcaaa	accacaata	aaaaaaaagt	taacactgtc	tgggccacag	120
canaacccaa	agaacatatt	cgtataattg	aaaaattcta	ggtgcttcn	aattgacctt	180
ttgatacaaa	atgacctatt	aaatttgcaa	tttgtaancc	ttggtgttga	ggtccatagg	240
acaagctagg	aagtcttcaa	accttgagtt	gaattccana	aggggttatt	tggcttttga	300
atcggttttt	ccttgtctaa	naggtagcag	cagcaacagc	gcccaccttc	tgggcagctt	360
ctttcttggc	atgatgagcc	tgtanaactg	ctacagcttc	atccaccttg	gagcgganag	420
actcggggga	ctctaacatg	tgcagcagct	canagtgtgc	tatctccagc	agcattcccg	480
tgatcttccc	agccagattt	gaatgcattg	tttggatgan	tgggaacaag	cgttctccca	540
gcatctgctt	ctgttcttgn	gggggtgctg	canccangca	tggaggcaan	tcagtggctc	600
ctgcccctgc	acaatggacc	gcaaggctgg	gggggtgctg	canaaggctg	tttgggcaag	660
gangaagggc	ctgcggaana	ctgggangcg	tatttggtan	ggggggcaaa		710

&lt;210&gt; 216

&lt;211&gt; 824

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 216

catggcctcc	ctgtacgtgg	gcgacctgca	ttcggacgtc	accgaggcca	tgctgtacga	60
aaagttcagc	cccgcggggc	ctgtgctgtc	catccgggtc	tgccgcgata	tgatcacccg	120
ccgctccctg	ggctatgcct	acgtcaactt	ccagcagccg	gccgacgtcg	agcgggcttt	180
ggacaccatg	aactttgatg	tgattaaggg	aaagccaatc	cgcacatgt	ggtctcagag	240
ggatccctct	ttgagaaaat	ctgggtgtggg	aaacgtcttc	atcaagaacc	tggacaaatc	300
tatagataac	aaggcacttt	atgatacttt	ttctgctttt	ggaaacatac	tgtcctgcaa	360
ggtggtgtgt	gatgagaacg	gctctaaggg	ttatgccttt	gtccacttcg	agacccaaga	420
ggctgccgac	aaggccatcg	agaagatgaa	tggcatgtc	ctcaatgacc	gcaaagtatt	480
tgtgggcaga	ttcaagtctc	gcaaagagcg	ggaagctgag	cttgaggcca	aagccaagga	540
attcaccaat	gtttatatca	aaaacttttg	ggaanaggtg	gatgatgaga	gtctgaaaga	600
agctattcan	tcaagtttgg	taagacccta	agtggtcaang	tgatgagaga	tccaatggga	660
aatccaaaag	gctttgggct	ttgtgagttt	acgaaaaaca	cnaggatgcc	aataaggctg	720
ttggaagaga	atgaatggga	aaagaaataa	antggtaaaa	tcataatttg	tagggccgtn	780
cacaaaaaga	aagtttaaac	gggnaggcaa	aattttaaacc	cggg		824

&lt;210&gt; 217

&lt;211&gt; 749

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 217

atggagattt	tttttcttta	ttgggaaacg	taagacttgg	gtacatcaaa	taaaaccaat	60
ttctggggga	aaaaatcaaa	accacaata	aaaaaaaagt	taacactgtc	tgggccacag	120
cagaacccaa	agaacatatt	cgtataattg	aaaaattcta	ggtgcttcn	aattgacctt	180
ttgatacaaa	atgacctatt	aaatttgcaa	tttgtaatcc	ttggtgttga	ggtccatagg	240
acaagctagg	aagtcttcaa	accttgagtt	gaattccata	aggggttatt	tggcttttga	300
atcggttttt	ccttgtctaa	gaggtagcag	cagcaacagc	gcccaccttc	tgggcagctt	360
ctttcttggc	atgatgagcc	tgtagaactg	ctacagcttc	atccaccttg	gagcgagag	420
actcggggga	ctctaacatg	tgcagcagct	cagagttgtc	tatctccagc	agcattcccg	480
tgatcttccc	agccaagatt	tgaatgcatt	gtttggatga	gtgggaacaa	gcgttctccc	540
agcatctgcn	tctgttcttg	gggggtgctg	gcattccagca	tgggangcan	tcagtggctc	600
ctgcccctgc	acatgggacc	gcaaggctgg	ggtgcctgca	naaggctgtat	gggaaggatg	660
nagggtgcc	ggncaactgg	ganggcgtat	ttgtaggggg	caaacaagcc	cggggaagca	720
nccagcagca	acancaacng	cttgccgccc				749

<210> 218  
 <211> 600  
 <212> DNA  
 <213> Homo Sapiens

<400> 218  
 ctttattggg aaacgtaaga cttgggtaca tcaaataaaa ccaatttctg ggggaaaaaa 60  
 tcaaaaccca caataaaaaa aaagttaaca ctgtctgggc cacagcagaa cccaaagaac 120  
 atattcgtat aattgaaaaa ttctagggtgc ttcataattg accttttgat acaaaatgac 180  
 ctattaaatt tgcaatttgt aatccttggg gttgagggtcc ataggacaag ctagggaagtc 240  
 ttcaaacctt gagttgaatt ccataagggg ttatttggct ttgaaatcgg ttttcccttg 300  
 tctaagaggt agcancagca acagcgccca ccttctgggc agcttcttcc ttggcatgat 360  
 gancctgtag aactgctaca gcttcacna ccttggagcg gngagactcg ggggactcta 420  
 acatgtgcag cagctcagag ttgtcnatct ccaagcagca ttcccgtgat cttcccagcc 480  
 anatttgaat gcattgtttg ggatgangtg gggaanaagc gttctcncag cannngctt 540  
 cnggtncnnn ggaggggggt gcntgcaagc ccagcattga aggcaagttc antggctcct 600

<210> 219  
 <211> 1077  
 <212> DNA  
 <213> Homo Sapiens

<400> 219  
 catggcctcc ctgtacgtgg gcgacctgca ttcggacgtc accgaggcca tgctgtacga 60  
 aaagttcagc cccgcggggc ctgtgctgtc catccgggtc tgccgcgata tgatcaccgc 120  
 ccgtccctg ggctatgcct acgtcaactt ccagcagccg gccgacgtg agcgggcttt 180  
 ggacaccatg aactttgatg tgattaaggg aaagccaatc cgcacatgt ggtctcagag 240  
 ggatccctct ttgagaaaat ctggtgtggg aaacgtcttc atcaagaacc tggacaaatc 300  
 tatagataac aaggcacttt atgatacttt ttctgctttt ggaaacatac tgtcctgcaa 360  
 ggtggtgtgt gatgagaacg gctctaaggg ttatgccttt gtccacttcg agaccaaga 420  
 ggctgccgac aaggccatcg agaagatgaa tggcatgtc ctcaatgacc gcaaagtatt 480  
 tgtgggcaga ttcaagtctc gcaaagagcg ggaaggtgag gatgatgaga gtctgaaaga 540  
 attcaccaat gtttatatca aaaactttgg ggaagaggtg gatgatgaga gtctgaaaga 600  
 gctattcagt cagtttggtg agaccctaag tgtcaagggt atgagagatc ccaatgggaa 660  
 atccaaaggc tttggctttg tgagttacga aaaaacagag gatgccaata aggtgtgga 720  
 agagatgaat ggaaaagaaa taagtggtaa aatcatattt gtaggccgtg caaaaagaa 780  
 agtagaacgg caagcagagt taaaacggaa atttgaacag ttgaaacagg agagaattag 840  
 tcgatatcan ggggtgaatc cccacattaa gaacttggat gacactattg atgatgagaa 900  
 attaaggaaa gaattttctc cttttggatc aattaccagt gctaaggtaa tgctggagga 960  
 tggagaagc aaagggtttg gcttcgtctg cttctcatct cctgaagaan caaccaaagc 1020  
 agtcactgga gatgaatgga cgcattttgg ggtccaacc actatatgtt gccttgg 1077

<210> 220  
 <211> 1007  
 <212> DNA  
 <213> Homo Sapiens

<400> 220  
 actacatcga tcgcgtggac gagcccttgt cctgctctta tgtgctgacc attcgcactc 60  
 ctgcgtcttg cccccacct ctctccggc ccccaaccag tgctgcaccg caggccatcc 120  
 tctgtcacc ttccctacag cctgaggagt acatggccta cgttcagagg caagccgact 180  
 caaagcagta tggagataaa atcatagagg agctgcaaga tctaggcccc caagtgtgga 240  
 gtgagaccaa gtctgggggt gcaccccaaa agatggcagg tgcgagcccc accaaggatg 300  
 acagtaagga ctcagatttc tggaagatgc ttaatgagcc agaggaccag gccccaggag 360  
 gggaggaggt gccggctgag gagcaggacc caagccctga ggcagcagat tcagcttctg 420

gtgctcccaa	tgattttcag	aacaacgtgc	aggtcaaagt	cattcgaagc	cctgcggatt	480
tgattcgatt	catagaggag	ctgaaagggtg	gaacaaaaaa	ggggaagcca	aatataggcc	540
aagagcagcc	tgtggatgat	gctgcagaag	tccctcagag	ggaaccagag	aaggaaaggg	600
gtgatccaga	acggcagaga	gagatggaag	aagaggagga	tgaggatgag	gatgaggatg	660
aagatgagga	tgaacggcag	ttactgggag	aatttgagaa	ngaactggaa	gggatcctgc	720
ttccgtcaga	ccgagaccgg	ctccgttcgg	aggtgaangc	tggcatggag	ccgggaactg	780
gnaaacatca	tccaggagac	angagaaaga	nctgggaccc	anatggggct	gaagaangga	840
tcagaatccg	ggatcgggca	atgctggctc	tcaaaatcaa	ctctcaacaa	antcattaaa	900
aagactggag	ggaaaaacaa	gagttccaaa	ncctggtgaa	nnaagcncat	aaaaaagaag	960
gttgtcccaa	aaaagnctcc	cccatcaanc	caaccctnca	gggaaaa		1007

&lt;210&gt; 221

&lt;211&gt; 833

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 221

ccgactcaaa	gcagtatgga	gataaaatca	tagaggagct	gcaagatcta	ggccccaag	60
tgtggagtga	gaccaagtct	ggggtggcac	cccaaaagat	ggcaggtgcg	agcccgacca	120
aggatgacag	taaggactca	gattttctgga	agatgcttaa	tgagccagag	gaccaggccc	180
caggagggga	ggaggtgccc	gctgaggagc	aggacccaag	ccctgaggca	gcagattcag	240
cttctggtgc	tcccaatgat	tttcagaaca	acgtgcaggt	caaagtcatt	cgaagccctg	300
cggatttgat	tcgattcata	gaggagctga	aaggtggaac	aaaaaagggg	aagccaaata	360
taggccaaaga	gcagcctgtg	gatgatgctg	cagaagtccc	tcagagggaa	ccagagaagg	420
aaaggggtga	tccagaacgg	cagagagaga	tggagaaga	ggaggatgag	gatgaggatg	480
aggatgaaga	tgaggatgaa	cggcagttac	tgggagaatt	tgagaangaa	ctggaaggga	540
tcctgcttcc	gtcagaccga	gaccggctcc	gttcggaggt	gaangctggc	atggagccgg	600
gaactggnaa	acatcatcca	ggagacanga	gaaaganctg	ggaccanac	ggggctgaag	660
aanggatcag	aatccgggat	cgggcaatgc	tggctctcaa	aatcaactct	caacaaantc	720
attaaaaaga	ctggagggaa	aaacaagagt	tccaaancct	ggtgaannaa	gcncataaaa	780
aagaaggttg	tcccaaaaaa	gnctccccc	tcaanccaac	cctncaggga	aaa	833

&lt;210&gt; 222

&lt;211&gt; 745

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 222

ggattgatgg	tccaagtgtt	tatttagaaa	cctgattggt	caagaacatg	gtgggtgctt	60
cacacctttt	tactgggat	tgtgctggag	gtgataggca	gcattctacc	atttcctcag	120
caacagaggt	gaaggctcct	caactcagaa	gcacaaattg	taggggacag	ggtgggcagg	180
gaaagggaga	aggaaatccc	aaggcaattc	aatagaagag	ggtaaaacga	ctccaaacat	240
cactaagggc	aggtgggggc	ctgcttgctc	agtgcctgct	aagtgtcctg	ccctccttgc	300
tctctctacc	cacctccact	caaaagatcc	tactgaatct	ccaggtaggc	agcagggaat	360
atcctatcat	taggggacaa	taacaggaaa	agccacagag	gagaggaaga	ggattgagtg	420
agagttcagg	agagcaaata	tcacaggccc	ggtgaggtct	caaggtggct	gccagcaggg	480
gcagcaagca	ttcaccagg	gccccacac	ccacagagtt	gcccagagang	tccacaagct	540
cagctccact	ctgctgtttg	gcctcaagg	gttccagggt	ggggaagtgg	ggaagaggca	600
ngccagteca	ggaagatctg	gattccgtga	angggtaag	tgtagtgttg	gtctcagaag	660
tcaaattntc	caagtcacct	gttgccctcc	ccacctggag	aagccccana	cccgngngta	720
attgctcncc	anctccttct	gccgc				745

&lt;210&gt; 223

&lt;211&gt; 747

&lt;212&gt; DNA



&lt;213&gt; Homo Sapiens

&lt;400&gt; 223

actacatcga	tcgcgtggac	gagcccttgt	cctgctctta	tgtgctgacc	attcgcactc	60
ctcggtctg	ccccaccct	ctcctccggc	ccccaccag	tgctgcaccg	caggccatcc	120
tctgtcacc	ttccctacag	cctgaggagt	acatggccta	cgttcagagg	caagccgact	180
caaagcagta	tggagataaa	atcatagagg	agctgcaaga	tctaggcccc	caagtgtgga	240
gtgagaccaa	gtctgggggtg	gcaccccaaa	agatggcagg	tgcgagcccg	accaaggatg	300
acagtaagga	ctcagatttc	tgggaagatgc	ttaatgagcc	agaggaccag	gccccaggag	360
gggaggagggt	gccggctgag	gagcaggacc	caagccctga	ggcagcagat	tcagcttctg	420
gtgctcccaa	tgattttcag	aacaacgtgc	aggtaaaagt	cattcgaagc	cctgcggatt	480
tgattcgatt	catagaggag	ctgaaagggtg	gaacaaaaaa	ggggaagcca	aatataggcc	540
aagagcagcc	tgtggatgat	gctgcagaag	tccctcagag	ggaaccagag	aangaaaggg	600
gtgatccaga	acggcagaga	gagatgggaa	ngaagangan	gatgaggatg	aggatgaggg	660
atgaaagann	aaggatgaaa	cgggcaagtt	actggggaan	aattttgana	aagggaactg	720
ggaaagggat	tcctggcttt	ccgttca				747

&lt;210&gt; 224

&lt;211&gt; 618

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 224

gatggtccag	ttgtttat	agaaacctga	ttgttcaaga	acatgggtggg	tgcttcacac	60
ctttttcgct	gggattgtgc	tggagggtgat	aggcagcatt	ctaccatttc	ctcagcaaca	120
gagggtgaagg	ctcctcaact	cagaagcaca	aattgtaggg	gacaggggtgg	gcagggaaag	180
ggagaaggaa	atcccaaggc	aattcaatag	aagagggtaa	aacgactoca	aacatcacta	240
agggcagggtg	ggggcctgct	tgctcagtgc	ctgctaagtg	tcctgccctc	cttgctctct	300
ctaccacact	ccactcaaaa	gatcctactg	aatctccagg	tangcancan	ggaatatcct	360
atcattaggg	gacaatanca	ggaaaagcca	cagaggagag	gaagaggatt	gagtganaag	420
ttcangacag	caaattatca	caggcccggt	gaggtctcaa	ngtgngctgc	caacaagggg	480
caancagcat	tcacccangg	gccccacacc	cacnnnagtt	gccccagagg	tcacacnctc	540
anctcccan	ctgcngttt	ggcctcaag	gggtccaan	gttcngaaa	gtgggggagg	600
aaggcancnc	antcccag					618

&lt;210&gt; 225

&lt;211&gt; 765

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 225

caaacatcag	agactgcatg	ctggagagaa	acttgaagaa	tgtgagaaaa	ccttcagcaa	60
ggatgaggag	cttagaaaa	agcagagaac	tcaccaggaa	aagaaagttt	attggtgtaa	120
tcagtgtagt	aggaccttcc	agggcagctc	agatctcatc	agacatcagg	taactcatic	180
aagagagaaa	ccatatgaat	gtaaaagaatg	tgggaaaact	caatcagagc	tcagaccttc	240
tgagacatca	tagaattcac	agtggagaaa	aaccttacgt	atgcaataaa	tgtggggaat	300
cttttagggag	cagctcagat	cttattaaac	accatcgtgt	tcatactgga	gagaaacctc	360
atgaatgtag	tgaatgtggg	aaagtcttta	gccagaggtc	ccacctgtgc	acacaccaga	420
aaatccacac	tggagagaag	ccctatcagt	gcactgaatg	tgaaaaagcc	ttcaggcggc	480
gttactcct	tattcaacgt	cggagaattc	atagtgtgta	gaaaccctat	gaatgtaagg	540
aatgtgggaa	actcttcacg	tggcacacag	ctttcctcaa	acatcagaga	ctgcatgctg	600
gagagaaaact	tgaagaatgt	gagaaaacct	tcagcaagga	tganggagct	taggggagag	660
cagaaaatc	accanggaag	agaaagcctt	attggngnta	atcagtgtgg	tanggctttc	720
caagggcagc	tcangacctc	atcgggccat	caggtaactc	aatac		765

<210> 226  
 <211> 791  
 <212> DNA  
 <213> Homo Sapiens

<400> 226  
 tggatccaaa gcacccctgg cactgttggt tatggcccac ctctgctgg ggcccccatg 60  
 gtgtatgggc ctccaccccc caacttctcc atccccctca tccctatggg tgtgctgcat 120  
 tgcaacgtcc ctgaacacca taacttagag aatgaagttt ctagattaga agacataatg 180  
 cagcatttaa aatcaaagaa gcggaagaa aggtggatga gagcatccaa gcggcagtcg 240  
 gagaagaaga tggaagaact gcatcataat attgatgac ttttgcaaga gaagaaaagc 300  
 ttagagtgtg aagtagaaga attacataga actgtccaga aacgtcaaca gcaaaaaggac 360  
 ttcattgatg gaaatgtaga gagtcttatg actgaactag aaatagaaaa atcactcaaa 420  
 catcatgaag atattgtaga tgaaattgag tgcatgaga agactcttct gaaacgtcgc 480  
 tcanagctca gggaagctga ccgactcctg gcagaggctg agagtgaact ttcattgcact 540  
 aaagaaaaga caaaaaatgc tgttgaaaag ttcactgatg ccaagagaag tttattgcaa 600  
 actgagtcag atgctgaggg aattagaaag gagagctcan gaaactgctg ttaanctcgt 660  
 caaanctgat cagcagctaa gatcgctcca agctgatgca aaaggatttg gancancaca 720  
 angatcaagc aagaagaaat cttgaaaaga aattaacnaa aattntnca gcaaaagact 780  
 cagacttcaa a 791

<210> 227  
 <211> 687  
 <212> DNA  
 <213> Homo Sapiens

<400> 227  
 gattgttatc ttttattttc atatgaaaaa tagattttta gcaaaattca aaaataactc 60  
 gacactataa aanagaggg ccttaagtac attctttttg ttaataagat ttaccagttt 120  
 gtaggttcaa atatgcagtt aaaatcactg ttttttttta aacatgttac gaagattaaa 180  
 aaaaaaaagg ctacgccaca tgttggttta aattcccata tgcaactatt cccatattga 240  
 ctatgtacaa gtgatttata aaaacattgg cattaatggg acaggcaaag taaactacag 300  
 tggagtttca naatctcagt tcaactgcac ttgattaaaa aaaccatgtg acattccaat 360  
 tatgaaagtca gtgaggtagt ggaggtgttt tccttgaata tatttacaca agacagtatt 420  
 cctcatctgg ctgaggcatt cttttccgga ttttgtccaa gttganagtc ctctgtgagg 480  
 gaagactcca agctgagaca gactgggtga tgacgtgaa tctgcaaagg tgctgtgga 540  
 ccaattcccc ctaanagcat cctacttgtc tcncaaact gtgntaaagt gccctctgtc 600  
 ctgccgcttt cctttaatna aaactctctg cttngcttgg ggcanacagt gtcgganttg 660  
 gggccttgag tcnggcttcc cggggaa 687

<210> 228  
 <211> 810  
 <212> DNA  
 <213> Homo Sapiens

<400> 228  
 gtctgggcag cgccaggcga tggccctgct gctgggtgctc ctgcctctt ggggcctggg 60  
 gcagtgaggg ggccggcggg cgtgggccga gtggccgcgg gcgccatgga gggggtgctg 120  
 tacaantgga ccaactatct gagcgttggt cagcctcgat ggttccttct ctgtggggga 180  
 atattgtcct attatgattc tcctgaagat gcctggaaag gttgcaaagg gagcatacaa 240  
 atggcagctc gtgaaattca agttcattct gtagataata cacgcatgga cctgataatc 300  
 cctggggaac agtatttcta cctgaaggcc agaagtgtgg ctgaaagaca gcggtggctg 360  
 gtggccctgg gatcagccaa ggcttgctg actgacagta ggaccagaa ggagaaagag 420  
 tttgctgaaa aactgaaaa cttgaaaacc aaaatgtcan aactaagact ctactgtgac 480  
 ctctgtgttc ancaagtaga ttaaaacata agaagtgacc acaactgggtg tgtccaattc 540

tgaggtaaag	gagctctcca	ctctggttgt	ttcgtangag	ggaattgatg	tgggaaacttt	600
gctgaaatca	anctgntata	ctttttctga	aagaccttgg	taagaattca	tgcanatngc	660
aaattgcagc	cttnaanctc	ctgaagcctn	cttctaaccg	gcactccaac	canggaatna	720
anctnaagct	gggccaatgg	ctccaaagtt	ccaacnaaag	gttaaaanac	cccagctcaa	780
atttgggcng	caaacaaagg	gcaatccaac				810

&lt;210&gt; 229

&lt;211&gt; 552

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 229

gtaaatttgt	ttgagttcat	tgtagattct	ggatattagc	ccttttgtca	gatgagtaga	60
ttgcaaaaat	tttctcccat	tctgtagggt	gcctgttcac	tctgatggta	gtttcccttg	120
ctgtgcggaa	gctctttagt	ttaattagat	cccatttgct	aatttcggct	tttgttgcca	180
ttgctttcgg	tgtttttagac	atgaagtcct	tgcccatgcc	tatgtcctga	atggttttcc	240
taggttttct	tctagggttt	ttatgggttt	aggtctaaca	tttaagtctc	gaatccatct	300
tgaattaatt	tttgtataag	gtgtaaggaa	gggatccact	ttcagctttc	tacgtatggc	360
tagccagttt	tcccancacc	atttattaaa	tagggaatcc	tttccccant	tcctgttttt	420
gtcangtttg	tcaaagatca	natggctgta	natatgcanc	attatttccg	agggctctgt	480
tongttccat	tggtctacat	ttcgtttttg	gttcengtac	catgctgttt	tttgttacng	540
gtanaccttg	gt					552

&lt;210&gt; 230

&lt;211&gt; 842

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 230

ctcatcagtt	agaagaaaaa	gaaaatcaaa	ttaagagcat	gaaggctgat	attgaaagtc	60
ttgtaacaga	aaaagaagcc	ttacagaagg	aaggaggcaa	tcagcaacag	gctgcttctg	120
aaaaggagtc	ttgtataaca	cagttgaaga	aagagttatc	tgaaaacatc	aatgctgtca	180
cattgatgaa	agaagagctt	aaagaaaaaa	aagttgagat	tagcagtctt	agtaaacac	240
taactgattt	gaatgttcag	cttcaaaata	gcacagcct	atccgaaaaa	gaagcagcca	300
tttcatcact	aagaaagcag	tatgatgaag	aaaaatgtga	attgctggat	caggtgcaag	360
atztatcttt	taaagttgac	actctgagta	aagagaaaaat	ttctgctctt	gagcaggtag	420
atgactggtc	caataaatcc	tcagaatgga	agaagaaagc	acagtcaaga	tttacacagc	480
atcaaaacac	tgtaaagaa	ttgcagatcc	agcttgagtt	aaaatcaaaag	gaagcttatg	540
aaaaggatga	gcagataaat	ttattgaagg	aagagcttga	tcagcaaaaat	aaaagatttg	600
attgttttaa	gggtgaaatg	gaagacgaca	agagcaagat	gggagaaaaa	ggagtctaata	660
ttagaaacag	agttaaagtc	tcaaacagca	agaattatgg	gattagagga	ccatattanc	720
caagaaaact	atgttgaaat	tagagtcctt	aaatngaaag	ttccttaaaa	aattacaatc	780
aacaaaaagg	atattggacc	acaaagnaat	tgggtcaaaa	aaccttcaac	aantttcaag	840
ga						842

&lt;210&gt; 231

&lt;211&gt; 781

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 231

atatagtaaa	taaactttat	ttatctgttt	ctcagagatg	acactgccaa	caatcacaga	60
tttgcataca	atacagttat	gtattggcta	ttcacaattt	acagtagtgt	tttttcctct	120
gaaaaatata	agtacaaaag	ctaagtaaac	aatgaggtac	tgccatttgg	gattttttac	180
atgtcttagc	ttaaagaact	ggtcttttagc	aaatattcaa	cagatcaacc	tgaataaaat	240

```

agtcaattaa atgctcctaatt ttatcagaaa aaatccacta agtttcacct caaaatgtat 300
tgcacaagtc tttttaaaaa atcacctaag aaataaataag gaaaggtaag ccgttcttta 360
aaaagaatgg atgaaaggaa tattatgtaa gcccataaag cagggttaagt tatcaaaaata 420
tctttttaaac aacataaaac tcttcccaag agaaaactga agaaaaaact atcaccattt 480
ctccactgat aaaatctatt ttaaaggcag tctgcaactt atctgtgggc cagattttttc 540
ttgggtcttt tggctacatg aggggccctg aatgacaact tcattctcaa agagtagcaa 600
agtgtggaca agttttccaa gcagcangtc acccaatgtc actcttctc aagatgaagg 660
atcggagcca tgacacatgt ttaactaagc acagaccgga tgggtttacc cagaagatac 720
cactggcaan ggtgaagtaa acatcaggcc gaggcaacct tccccntttc aaaaantttt 780
c 781

```

&lt;210&gt; 232

&lt;211&gt; 767

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 232

```

gttatatagt aaataaactt tatttatctg tttctcagag atgacactgc caacaatcac 60
agattttgcat acaatacagt tatgtattgg ctattcacaa tttacagtag tgttttttcc 120
tctgaaaaat ataagtacaa aagctaagta aacaatgagg tactgccatt tgggattttt 180
tacatgtctt agcttaaaaga actggctctt agcaaatatt caacagatca acctgaataa 240
aatagtcaat taaatgctct aatttatcag aaaaaatcca ctaagtttca cctcaaaatg 300
tattgcacaa gtctttttaa aaaatcacc taaaaataaa taggaaagggt aagccgttct 360
ttaaaaagaa tggatgaaag gaatattatg taagcccata aagcagggtta agttatcaaa 420
atatctttta aacaacataa aactcttccc aagagaaaaa tgaagaaaaa actatcacca 480
ttctccact gataaaatct attttanagg cagtctgcaa cttatctgtg ggccagattt 540
ttcttggctt tttggctaca tgaggggccc tgaatgaaaa cttcattctc aaaggagtag 600
caagtgtggg acagttttcc aagcagcagt cacccaatgt cactcttctt caagatgaaa 660
gatcggagnc atgacacatg ttaacctaaag nacangactg gaggggtttac ncangaagat 720
acactgcgaa ggtgaaagtt aaacatcaag ccgaggaacc tccccctt 767

```

&lt;210&gt; 233

&lt;211&gt; 879

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 233

```

gggagtttaa tacacagctg gcacaaaagg aacaagagct ggaaatgacc ataaaagaaa 60
ctatcaataa ggcccaggag gtggaggctg aacttttaga aagccatcaa gaagagacaa 120
atcagttact taaaaaaatt gctgagaaag atgatgatct aaaacgaaca gccaaaagat 180
atgaagaaat ccttgatgct cgtgaagaag aaatgactgc aaaagtaagg gacctgcaga 240
ctcaacttga ggagctgcag aagaaatacc agcaaaagct agagcaggag gagaacctg 300
gcaatgataa tgtaacaatt atggagctac agacacagct agcacagaag acgactttaa 360
tcagtgatcc gaaattgaaa gagcaagagt tcagagaaca gattcacaaat ttagaagacc 420
gtttgaagaa atatgaaaag aatgtatatg caacaactgt ggggacacct tacaaagggtg 480
gcaatttgta ccatacggat gtctcactct ttggagaacc taccgaattt gagtatttgc 540
gaaaagtgtc ttttgagtat atgatgggtc gtgagactaa gaccatggca aaagttataa 600
ccaccgtact gaagttccct gatgatcaga ctcagaaaaa tttgggaaaa gagaagatct 660
cggctgatgt ttacttcacc tcgcagtggg atcctcngag taaaccatca gtcgtgccta 720
agtttacatg tgtcatgggt ccgattcttc atcctttgaa gaaagagtgg acattgggggt 780
naccggctgc cttgggaaaa ctgtccanac nttgcnaacn ccttggggaa atggaagntt 840
ttccanttca agggccccc caangnttgc ccaaacagg 879

```

&lt;210&gt; 234

&lt;211&gt; 780

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 234

aaactttatt	tatctgtttc	tcagagatga	cactgccaac	aatcacagat	ttgcatacaa	60
tacagttatg	tattggnnng	gcacaattta	cagtagtggt	ttttcctctg	aaaaatataa	120
gtacaaaagc	taagtaaaca	atgaggtact	gccatttggg	attttttaca	tgtcttagct	180
taaagaactg	gtcttttagca	aatattcaac	agatcaacct	gaataaaata	gtcaattaaa	240
tgtcttaatt	tatcagaaaa	aatccactaa	gtttcacctc	aaaatgtatt	gcacaagtct	300
ttttaaaaaa	tcaccctaaa	aataaatagg	aaaggtaagc	cgttccttta	aaagaatgga	360
tgaaaggaat	attatgtaag	cccataaagc	aggttaagtt	atcaaaaata	cttttaaaaa	420
acataaaact	cttcccaaga	gaaaactgaa	gaaaaaacta	tcaccatttc	tccactgata	480
aaatctattt	taaaggcagt	ctgcaactta	tctgtggggc	agatttttct	tggtcttttg	540
gctacatgag	gggccctgaa	tgaaaacttc	attctcaaag	agtagcaagt	gtggacaagt	600
tttccaagca	gcagtcanc	aatgtcactc	ttcttcaaga	tgaaagatcg	gagccatgac	660
acatgttaac	taagcacaga	cntgatgggt	tactncagaa	gattaccact	gcnaagggtg	720
aagttaaaaa	tcaagncgag	catncntctc	tttccaaaaa	ttttccggng	tccggattca	780

&lt;210&gt; 235

&lt;211&gt; 780

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 235

attctgaggg	tatattaagt	cagagtcagg	ataaatcact	tcggagaata	gcagaattaa	60
gagaggagct	ccaaatggac	cagcaggcaa	agaaacatct	gcaagaggag	tttgatgcat	120
cttttagagga	gaaagatcag	tatatcagtg	ttctccaaac	tcaggtttct	ctactgaaac	180
aacgattacg	aaatggcccg	atgaatgttg	atgtactgaa	accacttcct	cagctggaac	240
cacaggctga	agtccttact	aaagaagaga	atccagaaa	tgatggagag	ccagtagtgg	300
aagatggaac	ttctgtaaaa	acactggaaa	cactccagca	aagagtgaag	cgtcaagaga	360
acctaactaa	gcgttgtaag	gaaacaattc	agtcacataa	ggaacaatgt	acactattaa	420
ctagtgaaaa	agaagctctg	caagaacaac	tggaatgaaa	acttcaagaa	ctagaaaaaga	480
taaaggacct	tcatatggcc	gagaagacta	aaacttatcac	tcagttgcgt	gatgcaaaaa	540
acttaattga	acagcttgaa	caaggataag	ggaatggtaa	tcgcagagac	aaaacgtcag	600
atgcatgaaa	ccctggaaat	gaaagaagaa	gaaattgtct	aactccgtag	tcgcatcaaa	660
cagatgacta	cccaaggagg	aggaattacg	ggaacaagan	agaaaagtcc	gaaagaactg	720
cntttgaggg	aacttgaaaa	agccttgagt	acagnccaaa	aanacagnng	aagccaccgg	780

&lt;210&gt; 236

&lt;211&gt; 711

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 236

cttggttttt	aaatttggtt	tcatattcct	cattcaaaat	atgaatactg	tcctccttgg	60
ctgacaattt	ctgtgtgagt	atctcaattt	ctttcttctg	tccttctctc	atttgtaaaa	120
tcatattttc	cttttccacc	aagatttgct	ttgtctgttc	ctgttctttg	ttaccatctt	180
caagtttgga	ctcatagact	tggtttaaag	attttacttt	ttgtccattt	tcactatttt	240
gtttttcaag	ttgtctgcat	aagtcctgca	cctggatttt	gtgagcatct	aactcagtac	300
aaacatcttt	cttttgtgct	tcaacttcag	caacctgttt	ggtaagaaga	attctttctg	360
tttccaaatc	caacaacttc	tgctgcaatt	gggccaactg	ttctcatat	gcttttgtct	420
gctcatgtgt	ggcactctgg	taagactgaa	aaacgtccag	cttagcagat	gcctgctgga	480
gttccccctc	agacctttta	atatctgcct	ccaaattttc	tacatgagcc	tgatgctctt	540
tcaaatgctt	gtccctttcc	ttcaagagaa	gctcaagttg	nttaanttga	tcttttaaa	600
ccttctcaan	tcctccggga	tanaaaacnt	cgtgttcttt	naatgagaac	ggtcaacntg	660

ccggctgggt gataantttt ccgttcanc cnccttgggg ctccaaattc c 711

<210> 237

<211> 658

<212> DNA

<213> Homo Sapiens

<400> 237

atagtaaata	aactttat	atctgtttct	cagagatgac	actgccaca	atcacagatt	60
tgcatacaat	acagttatgt	attggctatt	cacaatttac	agtagtggtt	tttctctga	120
aaaatataag	tacaaaagct	aagtaaaca	tgaggtagct	ccatttgga	ttttttacat	180
gtcttagctt	aaagaactgg	tctttagcaa	atattcaaca	gatcaacctg	aataaaaatag	240
tcaattaaat	gctctaattt	atcagaaaaa	atccactaag	tttcacctca	aaatgtattg	300
cacaagtctt	tttaaaaaat	caccctaaan	ataaatagga	aaggtaagcc	gttctttaaa	360
aagaatggat	gaaaggaata	ttatgtaagc	ccataagagc	aggttaagtt	atcaaaaat	420
cttttaaaaca	ncataaaaact	cttcccanga	gaaaactgaa	gaaaaaacta	tcaccatttc	480
tccactgata	aaatctat	ttaaaggcagt	ctgcanccta	tctgtgggcc	aagatttttc	540
ttggncctttt	ggctacatga	gggggccctg	gaatgaaaaa	cttcattccc	aanggagttt	600
gcnaggtgtg	ggacagggtt	tccaaggcaa	gcaagtnagc	caaantgtca	gctcttcc	658

<210> 238

<211> 678

<212> DNA

<213> Homo Sapiens

<400> 238

gttatatagt	aaataaactt	tatttatctg	tttctcagag	atgacactgc	caacaatcac	60
agatttgcat	acaatacagt	tatgtattgg	ctattcacaa	tttacagtag	tgttttttcc	120
tctgaaaaat	ataagtacaa	aagctaagta	aacaatgagg	tactgccatt	tgggattttt	180
tacatgtctt	agcttaaaaga	actggtcttt	agcaaatatt	caacagatca	acctgaataa	240
aaatgtcaat	taaatgctct	aatttatcag	aaaaaatcca	ctaagtttca	cctcaaaatg	300
tattgcacaa	gtctttttta	aaaatcaccc	taaaaataaa	taggaaagg	aanccgttct	360
ttaaaaagaa	tggatgaaag	gaatattatg	taagcccata	aagcagggtta	agttatcaaa	420
atatctttta	aacaacataa	gaactcttcc	caaggagaaa	actgaannaa	aaaactatca	480
ncatttcnnc	actgataaaa	tctantttta	agggtagtcn	gcaacttanc	tgtgggccag	540
atttttccgt	ggggcttttg	ggctacantn	agggggccct	gaatgaaaaa	nttcaattcc	600
ncaaatgng	tagcaaatg	tgggncangt	ttttccaaag	cagncaantt	cancnana	660
tgctactcct	tccttcaa					678

<210> 239

<211> 1402

<212> DNA

<213> Homo Sapiens

<400> 239

gggagtttaa	tacacagctg	gcacaaaagg	aacaagagct	ggaaatgacc	ataaaagaaa	60
ctatcaataa	ggcccaggag	gtggaggctg	aacttttaga	aagccatcaa	gaagagacaa	120
atcagttact	taaaaaaatt	gctgagaaa	atgatgatct	aaaacgaaca	gccaaaagat	180
atgaagaaat	ccttgatgct	cgtgaagaag	aaatgactgc	aaaagtaagg	gacctgcaga	240
ctcaacttga	ggagctgcag	aagaaatacc	agcaaaaagct	agagcaggag	gagaaccctg	300
gcaatgataa	tgtacaatt	atggagctac	agacacagct	agcacagaag	acgactttaa	360
tcagtgttc	gaaattgaaa	gagcaagagt	tcagagaaca	gattcacaat	ttagaagacc	420
gtttgaagaa	atatgaaaag	aatgtatatg	caacaactgt	ggggacacct	tacaaagggtg	480
gcaatttgta	ccatacggat	gtctcactct	ttggagaacc	taccgaattt	gagtatttgc	540
gaaaagtgtc	ttttgagtat	atgatgggtc	gtgagactaa	gacctgggca	aaagttataa	600

```

ccaccgtact gaagttccct gatgatcaga ctcagaaaat tttggaaaaga gaagatgctc 660
ggctgatgtt tacttcacct cgcagtggta tcttctgagt aaaccatcag tctgtgctta 720
gttaacatgt gtcattggctc cgatcttcat cttgaagaag agtgacattg ggtgactgct 780
gcttggaaaa ctgtccacac ttgtactctt ttgagaatga agttttcatt cagggccct 840
catgtagcca aaagaccaag aaaaatctgg cccacagata agttgcagac tgcctttaa 900
atagatttta tcagtggaga aatgggtgata gttttttctt cagttttctc ttgggaagag 960
ttttatgttg tttaaaagat attttgataa cttaacctgc tttatgggct tacataatat 1020
tcctttcatc cattcttttt aaagaacggc ttacctttcc tttttatttt taggggtgatt 1080
ttttaaaaag acttgtgcaa tacatttttg ggtgaaactt agtggatttt ttctgataaa 1140
ttagagcatt taattgacta ttttattcag gttgatctgt tgaatatttg ctaaagacca 1200
gttctttaag ctaagacatg taaaaaatcc caaatggcag tacctcattg tttacttagc 1260
ttttgtactt atatttttca gaggaaaaaa cactactgta aattgtgaat agccaatata 1320
taactgtatt gtatgcaa atgtgtattgt tggcagtgtc atctctgaga aacagataaa 1380
taaagtttat ttactatata ac 1402

```

<210> 240  
 <211> 760  
 <212> DNA  
 <213> Homo Sapiens

```

<400> 240
gtgcagtttc tcttatattc ctcacatatg tgctttcatt catctttcgc aagtggagaa 60
aaaaataatg cttttgggtc tttggctttt ttattatctt aatatgtgta tccacaatta 120
tggtatcaac tcaatatgaa aaactcaact taattttgtg catgattttc ataccttctt 180
tcactttgct ggggtatgtc atgttattga tccagctcga ctttatgaga aacttggaca 240
gtctggacaa tagaataaat gaagtcaata aaaccattct ttaacaacc ttaataccat 300
accttcagag tgttattttc ctttttgtca taagggtgtc ggaaatgaag tatggaaatg 360
aaataatgaa taaagaccca gttttcagaa tctctccacg gagtagagaa actcatccca 420
atccggaaga gcccgaagaa gaagatgaag atgttcaagc tgaaagagtc caagcagcaa 480
atgcactcac tgctccaaac ttggaggagg aaccagtcac aactgcaagc tgtttacaca 540
aggaatatta tgagacaaag aaaagttgct tttcaacaag aaagaagaaa atagccatca 600
gaaatgtttc cntttgtgtt aaaaaggtg aaagttttgg ggattaccta ggacacaatg 660
ggagctggta aaagtacttc cattaaaatg ataactnggg tgcacaaagc caaactgcan 720
ggagtgggtg gtgttacaaa ggnagcagan gcactcnggtg 760

```

<210> 241  
 <211> 745  
 <212> DNA  
 <213> Homo Sapiens

```

<400> 241
aaaagtccan caaagtttta tttctaagaa ataaacttgc atataaccgg aacgtaacaa 60
cncnggtatt acatcaatac agctataaca ttaatgcagc aattatataa cacaaaagtg 120
ctataatgac atgggaaatg ttcatgaact gtgaggtgaa aagatacaga aatgactat 180
gcctacngat actacctttg aaaaaggatc cataaaaaat acattgaata taagttggct 240
aaagaaaata ttaactgcgg tactttctta cagattangg ctantttctt ccatataact 300
tcaatatgta ctaaaattca catgcattta ttttataatc agaatgtcat tataattaaa 360
tggtangctg tgccatttca tcagtttatc anaccttctt atagtcaatg tcacattaaa 420
ttagaatccg agtaaataa gtttaaaaaat anctgataca tttgaagttc aggctaaaaa 480
cctcatattt ttatttgtaa aatgtttctc ntgttagctt tattgataat aaccgataac 540
caaccttaata ttgtangatt tttaaattat ttttaagcac aaantagacc catgttgggg 600
atgaataaca tgtcngattt tgtnaatttt ggtcnacnac ttttcccaa aatttccttg 660
tttctttcan ccnaaatttt taaaantgaa aactgtatca attatggaan gggtttattaa 720
aangtttncc tttggtaacc ngaag 745

```

<210> 242  
 <211> 818  
 <212> DNA  
 <213> Homo Sapiens

<400> 242  
 gcaacgcgcg ggcgcgcgag gtctggaagg cgcagaaatg gagcaagagc cacaaaatgg 60  
 agaacctgct gaaattaaga tcatcagaga agcatataag aaggcctttt tatttggttaa 120  
 caaagggtctg aatacagatg aattagggtca gaaggaagaa gcaaagaact actataagca 180  
 aggaatagga cacctgctca gagggatcag catttcatca aaagagtctg aacacacagg 240  
 tcctgggtgg gaatctgcta gacagatgca acagaaaatg aaagaaactc tacagaatgt 300  
 acgcaccagg ctggaaattc tagagaaggg tcttgccact tctctgcaga atgatcttca 360  
 ggaggtgccc aagttatatc cagaatttcc acctaaagac atgtgtgaaa aattaccaga 420  
 gcctcagttc tttagttcag ctctcagca tgctgaagta aatggaaaaca cctcaactcc 480  
 aagtgcaggg gcagttgctg cacctgcttc tctgtcttta ccatcacaaa gttgtccagc 540  
 agaagctcct cctgcttata ctctcaagc tgctgaaggt cactacactg tatectatgg 600  
 aacagattct ggggagtttt catcagttgg agaggagttt tatagggat cattctcagc 660  
 caacggcctc ttnagaacct taagggtctg gatcangat gaaattgatt ttgatacca 720  
 atgggagtag annttttttt tgtaaatcct gcaangggga ngttatgcan ctctgtancc 780  
 cgggggtacc ttcnaattgt gaagggtttt gggntaaa 818

<210> 243  
 <211> 799  
 <212> DNA  
 <213> Homo Sapiens

<400> 243  
 aatttcttga agtacttttt taatccaatt aagctgataa taatcacttc gaattttaat 60  
 acaatacaat catgttccca aatttccnag gtcataaca atacagtctc aatacaaaag 120  
 acgtaataat ctatttttat tcattttaaa tcaaagaaac cattccattt cctaacaac 180  
 aggtaagtta caaaagtagt ccattttact tttcatcagt ctttccctgt tttgaacaag 240  
 tcctttttgag aattcttagt tttagttttt gtttagctta cacactgaaa attttgagaa 300  
 gcacttaaaa aaatccacaa ttagtgcaaa aagaggggac aatactttta gtcattcctt 360  
 ctataaaaag aattaagggt actaaatgcc aatttttaag caaatatata gtttcctatt 420  
 tgccttctga aagacagcag atataaaaat agttcaatat taggtttaac aaggtttgaa 480  
 caacacatgt actatcagct ttattttacc tgcaaaaata ttttagctac acttggaana 540  
 aaaataaact tgagaatata acttcacatt tctaaggcca gatgcaagaa tacttaatct 600  
 tttcctttta aatagaagac atgccataaa atttatgaaa agttaatttg taggaatggn 660  
 atacatttaa aaaatacnng ttaaaccnng tgagggaatt ccacatttgg cctatttaac 720  
 aaaaatttta aaccaatttt caaaaggggc tttggggtaa aaagtngatt cccaagcaac 780  
 ntcaancant ttaaccttc 799

<210> 244  
 <211> 726  
 <212> DNA  
 <213> Homo Sapiens

<400> 244  
 gtgagttgag cgctgctgct ccgcggtgga gtcaccgcac cgctcccggt atcatggtgt 60  
 tctacttcac cagcagcagc gttaattcat ctgcctacac tatttacctg ggaaaagata 120  
 aatatgaaaa tgaagatctg atcaagcatg gctggcctga agatatctgg tttcatgtgg 180  
 acaaaactctc ttccggtcat gtataccttc gattacataa gggagagaat atagaagaca 240  
 tcccaaagga agtgtgatg gactgtgccc acctgtgaa ggccaatagc attcaaggct 300  
 gcaagatgaa caacgttaat gtggtatata cgccgtggtc taacctgaag aaaacagctg 360  
 acatggatgt ggggcagata ggctttcaca ggcagaagga tgtaaaaatt gtgacagtgg 420



agaagaaagt	aaatgagatc	ctgaaccgat	tagaaaagac	caaagtcgag	cggttcccag	480
acctancagc	agagaaagaa	tgcagagatc	gtgaagagag	gaatgagaaa	aaagcccaaa	540
ttcaggaaat	gaaaaagaga	gaaanagaag	aaatgaagaa	gaanaggga	atggatgaac	600
ttangagcta	ttcatcacta	atgaaagttt	gaaaatatgt	cttcanatca	ggatggcaat	660
ggatttcagat	gaattcatgt	taaaaggaga	aaaggngaaa	aaggaccttt	gaaaaatttg	720
aatgtt						726

&lt;210&gt; 245

&lt;211&gt; 592

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 245

ccagattaaa	aaaatggtat	tttattataa	cttttaaaat	tgcggaacat	cagactgaat	60
atcatcagac	acatacacia	aaccactcat	ctctaaagtc	atcttctata	ccctctcaaa	120
atttggccag	tgagttttgc	ctcagggaat	tttccagttc	aaccccatat	accaacatgg	180
aataaatgga	aacactagcc	ttttggtttt	gcccanaagtt	ccaaagtgtc	attacaggtg	240
gaatatctgc	tgacaggaagt	cattcttgct	gctgtgggtg	tgagtaaaat	gcttagttcc	300
ttctaaaatc	ataattgcaa	tatggacttc	tgcttcacgc	tgcatcctaa	ggcacaatc	360
aggtaaccta	catctcccaa	atgatcaaca	ggagcactcc	atcctatttt	accctcaatg	420
cnganaaatt	acnctgggc	ccanaagttg	tcacataggt	ggcttgggtt	acttgggggt	480
caggcaacaa	ctgccacagg	ccccagcttg	atgaanacca	tcnatttctt	taaaatatgt	540
tggnnactaa	gatggaggcc	tccggcncan	agggaanacan	nngacataaa	ac	592

&lt;210&gt; 246

&lt;211&gt; 821

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 246

aggatgaaga	gctggagagc	gccgaggacg	acgagcgagc	ctgtcggggc	cgcgagtccg	60
acgaagacac	tgaggatgct	agtgaactcg	acctggcaaa	gcatgatgaa	gaagactatg	120
tagaaatgaa	ggaacagatg	tatcaggaca	aactggcttc	tctcaagagg	cagttgcaac	180
aactgcaaga	aggtacatta	caggaatatc	agaagagaat	gaaaaaacta	gatcagcagt	240
acaaagagag	gatacggaat	gcagaactct	tcctccagct	ggaaactgaa	caagtggaac	300
gaaattacat	taaagaaaag	aaggcagcag	tgaaagaatt	tgaagacaag	aaggttgagc	360
tgaagagaaa	cctgattgct	gagctagaag	aaaagaagaa	aatgattgaa	aatgaaaagc	420
tgacaatgga	actgactgga	gattctatgg	aggtgaaacc	tatcatgacc	agaaagtgtc	480
ggaggcgacc	aaatgatccc	gtcccatccc	cagacaagag	gaggaaacct	gctccagccc	540
agctaaacta	tttgtttaaca	ggatgaacag	atcatggagg	atctgagaac	attaataaag	600
cttaagtcac	ccaagagacc	agcatctcca	tcctctcctg	agcacttgcc	tgcaacaccc	660
gccggaatct	ccaagcccca	gaggttcnaa	agccccggat	anaagaatgg	caaacctgtt	720
actatgacaa	aaagatgggt	accacaagag	ccaaggccat	cctatcctgg	angtcaaagg	780
gacaaaccan	gaaactgaag	cctgcctnat	taagtttccg	t		821

&lt;210&gt; 247

&lt;211&gt; 639

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 247

gttacacaaa	gcatttatct	ctctgagaag	gccgagagcc	acgagaattc	atcatctcct	60
gctaggacct	ctgccccaa	cttctgggca	aatagtgaat	tggacgcgac	agggaaagta	120
gctacgtgat	ccactaatca	gattcaaaac	atgaaaatgc	actggagagt	gtatcccttc	180
ctgctcttct	ccatggtaga	gagacttaaa	gataatcaat	aaaaatagct	gtcccttcaa	240

actcagagga	ggttttcaaa	aacaagtata	agcaaaaaat	aaagaaataa	aaggaaagta	300
aatcaaaacc	cccaatagc	ctgaaagtaa	aacagtctca	tggtagactga	tgtctggaan	360
aagttgaggc	agaaaagact	gacaaagtgg	gaangcatcc	cggccacaaa	agtgcccnaa	420
aagaattcan	tgcagtgtct	tccatttcca	aggtgagta	actattccca	gntaagttaa	480
catttttcna	nttaaggana	nancgaanac	anntncatnt	ctanatccca	ctccagaaat	540
anggtcaatg	agaangangc	actgtannna	aagtcaagna	gctggancnc	cggggcggnt	600
tnaccaaga	gcccggcgct	nnaagcctgg	gccaagct			639

&lt;210&gt; 248

&lt;211&gt; 846

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 248

aacaggatgt	caaaaattaa	actgcgcttt	ccatcacaaat	agaggacgat	atgttgatgg	60
ccttttctta	cctccgagca	aaactgtgtt	gcccactgtg	cctgagtcac	cagaagagga	120
agtgaaggct	agccaacttt	cagttcagca	gaacaaattg	tctgtccagt	ccaatccttc	180
ccctcagctg	cggagcggtta	tgaaagtaga	aagttccgaa	aatgttccta	gccccacgca	240
tccaccagtt	gtaattaatg	ctgcagatga	tgatgaagat	gatgatgatc	agttttctga	300
ggaaggatgt	gaaacaaaa	cacctaccct	gcaaccaact	cctgaagttc	acaatggatt	360
acgagtgtct	tctgtccgga	aacctgcagt	caatataaag	caaggtgaat	gtttgaattt	420
tggaataaaa	actcttgagg	aaattaagtc	aaagaaaatg	aaggaaaaat	ctaagaagca	480
aggtaggggt	tcttcaggag	tttccagtc	tttactccac	cctgagcccg	ttccaggtcc	540
tgaaaaagaa	aatgtcagga	ctgtggtgag	gacagtaact	ctctccacca	aacaaggaga	600
agaacccttg	gttagattga	gtcttactga	gagactgggg	aaacgaaaat	tttcagcagg	660
cggtagcagt	gatcctccat	taaagcgtag	cctggcacan	aggctaaggg	aagaaagttg	720
aagctccaga	aactaacant	gacaaaacac	caangaaagc	tcaagtttcc	aagtcacctc	780
aaagggcgga	attaggcatg	tcagccngga	ttcaagataa	tnagggatgc	aacaagatta	840
aaggtt						846

&lt;210&gt; 249

&lt;211&gt; 763

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 249

gacttttctta	catcagtttt	atttaaaaca	caaacaagta	tttctctttc	tgtaagggca	60
aatggttcaa	ataatgcgga	acacgaaaca	ttgactaata	caagtgtctt	aaatatgaaa	120
caaaattatt	ttttaaaaaa	gcaaaaagaat	aaagaatata	tacaaaaggg	acctggaatc	180
tgtaagctga	ttccaaaaat	gaaataagta	gaaaatccat	ggtgaaacct	gaacattcta	240
cctctgcttt	ggagaagggc	tatcatataa	cattcagtc	gctgaagatg	gattggtaga	300
ggtgtgtcta	tacataaaact	tcagtcattt	ttgcttgtgc	agaatcatcc	caatcttccc	360
aagactgaat	gggcagtcct	gtggctttct	tccttttcca	tattcccaac	aaggctacgt	420
gaagttcaac	tcttgatgag	ccgcttataa	cagcagttcc	ttaggagcca	acatgacagg	480
tgggtcagat	ttccttatga	gaaacaaaac	tggccacct	cagcaaaata	tcaaatggg	540
taagtccttc	cttctcttcc	ctcctgatta	tatacaacat	atctcctttc	aagactatta	600
tttccatcat	gccttattcc	ttcacaaaac	taaaccttga	ngtgatatga	angaaaccaa	660
catcaagaaa	agaaaactca	attcagaaat	gaanaaaacg	ggcaggtata	caatacaccc	720
cagagcatct	caatatcccc	tgggacagnt	acaattcagt	gtt		763

&lt;210&gt; 250

&lt;211&gt; 899

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 250

attcaagtca	agagatgtga	gaccatgaga	gagaagcaca	tgcagaaaca	gcaggagagg	60
gaaaaaatcag	tcttgacacc	tcttcgggga	gatgtagcct	cttgcaatac	ccaagtggca	120
gagaaaccag	tgctcactgc	tgtgccagga	atcacacggc	acctgaccaa	gcggcttccc	180
acaaagtcat	cccagaaggt	ggaggtagaa	acctcaggga	ttggagactc	attattgaaat	240
gtgaaatgtg	cagcacagac	cttggaaaaa	aggggtaaaag	ctaaacccaa	agtgaacgtg	300
aagccatctg	tggttaaagt	tgtgtcatcc	cccaaattgg	ccccaaaacg	taaggcagtg	360
gagatgcacg	ctgctgtcat	tgccgctgtg	aagccactca	gctccagcag	tgtcctacag	420
gaacccccag	ccaaaaaggc	agctgtggct	gttgtcccgc	ttgtctctga	ggacaaatca	480
gtcactgtgc	ctgaagcaga	aaatcctaga	gacagtcttg	tgetgcctcc	aacccagtcc	540
tcttcagatt	cctcaccccc	ggaggtgtct	ggcccttcc	catcccaaat	gagcatgaaa	600
actgcgcgac	tcagctctgc	ctcaacaagg	aaagccccc	ctctctgtgg	aggatgattt	660
tgagaaaacta	atatgggaga	tttcaaggag	gcaaaattgg	naactganat	tgacctggat	720
tctgggaaaa	gatgaagatg	acccttcggg	cttngngcct	atcaannaaa	ngattgntan	780
cctgaaaggg	tggttaattga	nggacnccct	naaaaaaaaa	atccnccaaa	aaaactnngg	840
ccttaanttc	naccaaattg	taacaatttn	acctgagaat	gnttaatttc	ctttaggcc	899

&lt;210&gt; 251

&lt;211&gt; 755

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 251

cctacatcag	ttttattttaa	aacactaaca	agtattttctc	tttctgtaag	ggcaaatggg	60
tcaaataatg	cggaacacga	aacattgana	nagacaagtg	ctttaaatat	gaaacaaaat	120
tatttttttaa	aaaagcaaaa	gaataaagaa	tatatacaaa	agggacctgg	aatctgtaag	180
gtgattccaa	aaacgaaata	agtagaaaat	ccatgggtgaa	acctgaacat	tctacctctg	240
ctttggagaa	gggctatcat	acaacattca	gtcagctgaa	gatggattgg	tagaggtgtg	300
tctatacata	aacttcagtc	atttttgett	gtgcagaatc	atcccaatct	tcccaagact	360
gaatgggcag	tcctgtggct	ttcttccttt	tccatattcc	caacaaggct	acgtgaagtt	420
caactcttga	tgagccgctt	acaacagcag	ttccttagga	gccaacatga	caggtgggtc	480
agatttccct	atgagaaaca	aaactggcca	cctacagcaa	aatatcaaaa	tgggtaagtc	540
cttcccttct	cttccctctg	attatataca	acatatctcc	tttcaaagac	tattatttcc	600
atcatgctta	ntccttcaca	aatctaaacc	ttgaggtgat	atgaaggaaa	ccaacatcan	660
gaaaagaaaa	ctcaattcag	aaatgaagaa	aacgggcang	tatacaattc	anccccagag	720
caacccaata	atccctgggc	aaaagttcaa	ttcaa			755

&lt;210&gt; 252

&lt;211&gt; 753

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 252

cctacatcag	ttttattttaa	aacactaaca	agtattttctc	tttctgtaag	ggcaaatggg	60
tcaaataatg	cggaacacga	aacattgact	aatacaagtg	ctttaaatat	gaaacaaaat	120
tatttttttaa	aaaagcaaaa	gaataaagaa	tatatacaaa	agggacctgg	aatctgtaag	180
gtgattccaa	aaacgaaata	agtagaaaat	ccatgggtgaa	acctgaacat	tctacctctg	240
ctttggagaa	gggctatcat	acaacattca	gtcagctgaa	gatggattgg	tagaggtgtg	300
tctatacata	aacttcagtc	atttttgett	gtgcagaatc	atcccaatct	tcccaagact	360
gaatgggcag	tcctgtggct	ttcttccttt	tccatattcc	caacaaggct	acgtgaagtt	420
caactcttga	tgagccgctt	acaacagcag	ttccttagga	gccaacatga	caggtgggtc	480
agatttccct	atgagaaaca	aaactggcca	cctacagcaa	aatatcaaaa	tgggtaagtc	540
cttcccttct	cttccctctg	gattatatac	aacatatctc	ctttcaagac	tattatttcc	600
atcatgctta	atccttcaca	aatctaaaac	cttgaggtgtg	atatgaaagg	aaaccaacat	660
canagaaaag	aaaactcaat	tcaagaaaat	taagaaaacc	tggcaaggta	tacaaatata	720

ccccaggag catcccaaat aatccctggg aaa

753

&lt;210&gt; 253

&lt;211&gt; 793

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 253

gactttccta	catcagtttt	attttaaaca	ctaacaagta	tttcnctttc	ngtaagggca	60
aatgggttcaa	ataatgcgga	acacgaaaca	ttgactaata	caagtgcctt	aaatatgaaa	120
caaaattatt	ttttaaaaa	gcaaaagaat	aaagaatata	tacaaaagg	acctggaatc	180
tgtaaggnga	ttccaaaaac	gaaataagta	gaaaatccat	ggtgaaacct	gaanattcta	240
cctctgcctt	gganaagggc	tatcatata	cattcagtc	gctgaanatg	gattggtaaa	300
ggtgtgtcta	tacataaact	tcagtcattt	ttgcttgtgc	anaatcatcc	caatcttccc	360
aagactgaat	gggcagtcct	gtggctttct	tccttttcca	nattcccaac	aaggctacgt	420
gaagttcaac	tcttgatgag	ccgcttaca	cagcagttcc	ttaggagcca	acatgacagg	480
tgggtcagat	ttccctatga	gaaacaaaac	tggccacct	cagcaaaata	tcaaatggg	540
taagtccttc	cttccctctc	cnctgatta	tatacaanat	atctcctttc	aagactatta	600
tttccatcat	gcttattcct	tcacanatct	aaacctgan	gtgatatgaa	nggnaaccaa	660
catcangaaa	agaaaactca	attcagnaat	gaangaaaac	tgggaggtat	ttaatanacc	720
cccangnga	atccaaatac	cctggnaana	gttcaattca	antgtacngc	naaagnccat	780
aantaantat	tgg					793

&lt;210&gt; 254

&lt;211&gt; 625

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 254

cctacacag	ttttatttaa	aacactaaca	agtattttct	tttctgtaag	ggcaaatggt	60
tcaaataatg	cggaacacga	aacattgact	aatacaagtg	ctttaaatat	gaaacaaaat	120
tatttttttaa	aaaagcaaaa	gaataaagaa	tatatacaaa	agggacctgg	aatctgtaag	180
gtgattccaa	aaacgaaata	agtagaaaat	ccatggtgaa	acctgaacat	tctacctctg	240
ctttggagaa	gggctatcat	acaacattca	gtcagctgaa	gatggattgg	tanagggtgtg	300
tctatacata	aacttcagtc	atctttgctt	gtgcagaatc	atcccaatct	tcccaagact	360
gaatgggcag	tcctgtggct	ttcttccttt	tccatattcc	caacaaggct	acgtgaagtt	420
caactcttga	tgagccgctt	acaacancaa	gttccttang	agccaacatg	acagggtggg	480
tcangatttc	cctatgagaa	acaanactgg	ccacctacag	caaaaatatn	aaaatggggt	540
aagtccttcc	ttctcttccc	tcctgaatta	tatncaacat	ntctcctttt	caagacnatt	600
anttccatca	gggcttaatac	cttca				625

&lt;210&gt; 255

&lt;211&gt; 907

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 255

gccaacagca	gaggagaaac	gtttctcttt	cctctcagtt	tgcgcacacc	atggcgggccc	60
ctgcccagca	gactactcag	cctggcgggc	ggaagcgcaa	aggcaaggct	cagtatgtgc	120
tggccaagcg	cgctcggcgc	tgcgacgctg	gcgggccccg	tcagctagag	cccggtctac	180
agggcaccc	catcacctgc	aatatgaacg	agcgcaagtg	cgtggaggag	gcctacagcc	240
tcctcaacga	atacgcgac	gacatgtatg	ggccagaaaa	gtttacagac	aaggatcagc	300
agccctctgg	aagtgaggga	gaggatgatg	atgcggaggc	tgccttgaag	aaagaagttg	360
gtgacattaa	ggcatctaca	gagatgaggt	taagaagatt	ccagtcagtg	gaaagtggag	420
caaataacgt	tgtcttcac	aggacacttg	ggatagagcc	tgagaaattg	gtgcatcata	480

ttctccagga	tatgtacaaa	accaagaaaa	agaagactcg	agttattttg	cgaatgttac	540
ccatctcagg	cacatgcaag	gcttttttag	aagatatgaa	aaaatatgca	gaaacatttt	600
tggaaccctg	gtttaaaagct	ccaaacaaaag	ggacatttca	gattgtgtac	aaaatctcga	660
nataacagtc	atgtnaatag	agaagaagtt	atcaagagaa	tttgcannga	atagtgtgca	720
acctcaattc	agnaaataaa	gtgggtntca	acaatccaca	agtacacaat	ngtaatanaa	780
atcatcaaan	ctgtcngttc	cctganngtt	tgttaaagga	ttacaagggt	ggtttannaa	840
aattcaatcn	ccaagaaggt	tggtnaanaa	ncccctaang	ggntccttca	naggcnttaa	900
ctcaaag						907

&lt;210&gt; 256

&lt;211&gt; 794

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 256

aataacgcaa	aatgacttat	ggagacaacc	actgatgggg	caccaggagt	gtagatacca	60
gacctctggt	tatcagatat	gatgtcacia	aanagagata	ttggcctttg	ttctggcagg	120
ctcctagcaa	tagaaaaagt	tttctttgaa	tttcatcatt	tacaaatctt	acaaatgcta	180
cagcatgaca	aatatttagtg	aaacctgttg	actcatcatc	ctggatagag	aagctgctac	240
ttttcagtta	atgacacaaa	accttttttg	catcatatga	catatcatca	gtaaatcaac	300
ttattgagaa	taaagtctct	tcaactttgt	actgcatctt	gccccagcat	tttaattgta	360
ttagattctc	accaaccatg	cataattttc	tttcctgaga	taagttctgc	tactaaataa	420
tttgcttctt	aaaccttttg	actaaagggt	atttctgaac	aaaagcctta	ctgtttttga	480
tagtccaaaa	gccatttgaa	aataatgaat	atcctttctt	gtcaagtggc	tgtgatttat	540
tgttacaatt	gctaagtttt	gtaagttgca	tgtcacagac	aatgcacaat	gggacaagan	600
aaccttggtg	ctgagtccac	ataaataccc	cttgagaagt	tancctttcc	tttaattaaga	660
caagaatttc	ctttggtgtc	cccttggttg	cactaagtat	acttgaaagt	ntnctccagn	720
angactggaa	gttcttcaat	caaccaant	ttttcaagaa	aatgtccngt	agtttcaang	780
gcctaaaaat	gggt					794

&lt;210&gt; 257

&lt;211&gt; 885

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 257

gacgccaaca	gcagcggaga	aacgtttctc	tttctctctc	gtttgcgcac	accatggcgg	60
cccctgcccc	gcagactact	cagcctggcg	gcgggaagcg	caaaggcaag	gctcagtatg	120
tgttgcccaa	gcgcgctcgg	cgctgcgacg	ctggcggggc	ccgtcagcta	gagcccgggc	180
tacagggcat	cctcatcacc	tgcaatatga	acgagcgcaa	gtgcgtggag	gaggcctaca	240
gcctcctcaa	cgaatacggc	gacgacatgt	atgggccaga	aaagtttaca	gacaaggatc	300
agcagccctc	tggaagttag	ggagaggatg	atgatgcgga	ggctgccttg	aagaaagaag	360
ttggtgacat	taaggcatct	acagagatga	ggttaagaag	attccagtca	gtggaaagtg	420
gagcaaataa	cgttgtcttc	atcaggacac	ttgggataga	gcctgagaaa	ttggtgcata	480
atattctcca	ggatatgtac	aaaaccaaga	aaaagaagac	tcgagttatt	ttgcgaatgt	540
tacctcatct	aggcacatgc	aaggcttttt	tagaagatat	gaaaaaatat	gcagaaacat	600
ttttggaacc	ctgggtttta	agctccaaac	aaaggacat	ttcagattgt	gtacaaatct	660
cgaaataact	gtcatgtgaa	tngagaaaga	agttatcaga	gaaattggca	aggaatagtt	720
gtgcaccctc	aattcagaaa	attaaagggtg	ggntctcaac	caatccacag	ttcacagntg	780
gtagttagaa	atcaatcaaa	acctgtcngt	ttgcccgaan	ttgnttggtta	aaagaattca	840
angttggttt	tanaaanaat	naaatcccca	aagaagggtg	gtgaa		885

&lt;210&gt; 258

&lt;211&gt; 798

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 258

aacatttttg	cataaatggg	tctttgatac	aggtaaccag	ttttgtaaca	ttattcagaa	60
cttcactgta	tcttcaagtt	tttgatatca	gnagcactgt	ggagaaaagca	gtgtgctata	120
atgtcaacat	caggatttct	tttttttttt	ttaataacgc	aaaatgactt	atggagacaa	180
ccactgatgg	ggcaccagga	gtgtagatac	cagacctctg	gttatcagat	atgatgtcac	240
aacattatat	attggccttt	gttctggcag	gctcctagca	atagaaaaag	ttttctttga	300
atttcacat	ttacaaatct	tacaaatgct	acagcatgac	aaatattagt	gaaacctgtt	360
gactcatcat	cctggataga	gaagctgcta	cttttcagtt	aatgacacaa	aacctttttt	420
gcacatcatg	acatatcatc	aagtaaatca	acttattgag	aataaagtct	cttcaacttt	480
gtactgcac	ttgccccagc	attttaatgt	tattaagatt	ctcaccaacc	atgcatattt	540
tcctttctctg	agataagttc	tgctactaaa	taatttgctt	cttaaacctt	ttgactaaaag	600
gtgattttctg	aacaaaagcc	ttactgtttt	tgataagtcc	caaaaagcca	tttgaaaaat	660
aatgaatatc	ctttctntgc	aagtggctgt	gaatttaatg	ttacaattgc	caagttttgt	720
aagttgcatn	gtcacangac	aatgcacaat	ggggacaagg	agaaccttgg	gcttgagtcc	780
acaataanta	ccccttga					798

&lt;210&gt; 259

&lt;211&gt; 831

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 259

gccggcggtg	gacgaggacg	ccaacagcag	cggagaaacg	tttctctttc	ctctcagttt	60
gcgcacacca	tggcggtccc	tgcccagcag	actactcagc	ctggcggtcg	gaagcgcaaa	120
ggcaaggctc	agtatgtgct	ggccaagcgc	gctcggtgct	gcgacgtgg	cgggccccgt	180
cagctagagc	ccgggtctaca	gggcatcctc	atcacctgca	atatgaacga	gcgcaagtgc	240
gtggaggagg	cctacagcct	cctcaacgaa	tacggcgacg	acatgtatgg	gccagaaaag	300
tttacagaca	aggatcagca	gccctctgga	agtgaggagg	aggatgatga	tgcgagggtc	360
gccttgaaga	aagaagttgg	tgacattaa	gcactctacg	agatgaggtt	aagaagattc	420
cagtcagtgg	aaagtggagc	aaataacgtt	gtcttcatca	ggacacttgg	gatanagcct	480
gagaaattgg	tgcatcatat	tctccaggat	atgtacaaaa	ccaagaaaaa	gaagactcga	540
gttattttgc	gaatgttacc	catctcaggc	acatgcaang	ctttttttaga	agatatgaaa	600
aaatatgcan	aaacattttt	ggaancctgg	tttaaagctc	caaacaaagg	gacatttcag	660
attgtgttca	aatctcgaaa	ataacagtca	tgttgaaatg	aagaagaagt	tatcagagaa	720
nttggcaagg	aataatgntg	caacctcaat	tcagaaaata	aaagtggatt	tcaccaattc	780
cacagtncac	aantggtagt	agaaatcatc	aaaagctntc	tgtttgcccg	a	831

&lt;210&gt; 260

&lt;211&gt; 772

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 260

aataacgcaa	aatgacttat	ggagacaacc	actgatgggg	caccaggagt	gtagatacca	60
gacctctggt	tatcagatat	gatgtcacaa	cattatatat	tggcctttgt	tctggcaggc	120
tcctagcaat	agaaaaagtt	ttctttgaa	ttcatcattt	acaaatctta	caaagtgtac	180
agcatgacaa	atattagtga	aacctgttga	ctcatcatcc	tggatagaga	agctgctact	240
tttcagttaa	tgacacaaaa	ccttttttgc	atcatatgac	atatcatcag	taaatcaact	300
tattgagaat	aaagtctctt	caactttgta	ctgcatcttg	ccccagcatt	ttaatgttat	360
tagattctca	ccaaccatgc	atattttcct	ttcctgagat	aagttctgct	actaaaataat	420
ttgcttctta	aaccttttga	ctaaagggtga	tttctgaaca	aaagccttac	tgtttttgat	480
agtcacaaaag	ccatttgaaa	ataatgaata	tcctttcttg	tcaagtggcn	gtgattttatt	540
gttacaattg	ctagttttgt	nagttgcatg	tcacagacaa	tgcacaatgg	gacangagag	600

cctgggactg	agtccacata	atacccttga	gaagtannct	ttctttatta	agacagaant	660
tctttgtgtc	ccttggttgc	caagtntact	gaagtntcnc	aagaaggact	ggangtcntc	720
ataancaacc	ttttagaaat	gtccgtattc	ctaaggccca	aaaangggtc	cc	772

&lt;210&gt; 261

&lt;211&gt; 753

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 261

agacgaggac	gccaacagca	gcgagaaaac	gtttctcttt	cctctcagtt	tgcgcacacc	60
atggcggccc	ctgcccagca	gactactcag	cctggcgggc	ggaagcgcaa	aggcaaggct	120
cagtatgtgc	tggccaagcg	cgctcggcgc	tgcgacgctg	gcgggccccg	tcagctagag	180
cccggtctac	agggcacctc	catcacctgc	aatatgaacg	agcgcaagtg	cgtggaggag	240
gcctacagcc	tcctcaacga	atacggcgac	gacatgtatg	ggccagaaaa	gtttacagac	300
aaggatcagc	agccctctgg	aagtgaggga	gaggatgatg	atgcggaggc	tgccctgaag	360
aaagaagttg	gtgacattaa	ggcatctaca	gagatgaggt	taagaagatt	ccagtcagtg	420
gaaagtggag	caaataacgt	tgtcttcac	aggacacttg	ggatagagcc	tgagaaattg	480
gtgcatcata	ttctccagga	tatgtacaaa	accaagaaaa	agaagactcg	agttattttg	540
cgaatgttac	ccatctcagg	cacatgcaag	gcttttttag	aaagatatga	anaaatatgc	600
anaaaacatt	tttggaaacc	tgggtttaaa	gctccaaaca	aagggaacatt	tcagaattgt	660
ggtacaaatc	tcgaaatanc	agtcattgta	antagagaan	naagtttttc	agaagaattt	720
ggcaaggaat	nagtnntgca	accctcaatt	tca			753

&lt;210&gt; 262

&lt;211&gt; 659

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 262

aataacgcaa	aatgacttat	ggagacaacc	actgatgggg	caccaggagt	gtagatacca	60
gacctctggt	tatcagatat	gatgtcacia	cattatatat	tggcctttgt	tctggcaggc	120
tcctagcaat	agaaaaagtt	ttctttgaa	ttcatcattt	acaaatctta	caaagtctac	180
agcatgacaa	atattagtga	aacctgttga	ctcatcatcc	tggatagaga	agctgctact	240
tttcagttaa	tgacacaaaa	ccttttttgc	atcatatgac	atatcatcag	taaatcaact	300
tattgagaat	aaagtctctt	caactttgta	ctgcatcttg	cccagcatt	ttaatgttat	360
tagattctca	ccangccatg	catattttcc	tttcttgaga	taagttctgc	tactaaagaa	420
tttgcttctt	aaaccttttg	actaaagggtg	atctctgaac	aaaagcctta	ctgtttttga	480
nnagtccana	agccatttga	aaaataatga	atctcctttc	cttgtcaagt	ggcngtgatt	540
tantgttaca	atctgcnagg	ttttgttaagt	tgcatgggtca	cagnanaatg	cacantnggg	600
acannagan	cntgggncng	aagtccacat	tatanccctt	tgagnaangt	agctttccc	659

&lt;210&gt; 263

&lt;211&gt; 673

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 263

gagattttga	tcacggtaac	cgatcagaat	gacaacaagc	ccgaattcac	ccaggaggtc	60
tttaaggggt	ctgtcatgga	aggtgctctt	ccaggaaacct	ctgtgatgga	ggtcacagcc	120
acagacgcgg	acgatgatgt	gaacacctac	aatgccgcca	tcgcttacac	catcctcagc	180
caagatcctg	agctccctga	caaaaatatg	ttcaccatta	acaggaacac	aggagtcac	240
agtgtgggtc	ccactgggct	ggaccgagag	agtttcccta	cgtataccct	gggtgttcaa	300
gctgtgacc	ttcaagggtga	gggggttaagc	acaacagcaa	cagctgtgat	cacagtcaact	360
gacaccaacg	ataatcctcc	gatcttcaat	cccaccacgt	acaaggggtca	gggtgcctgaa	420

```

aacgaggcta acgtcgtaat caccacactg aaagtgactg atgctgatgc cccaataacc 480
ccagcggttg gaggtgtgat acaccatatt gaatgatgat ggtgggacaa tttgtcgtca 540
ccacaaatcc agtgaacaac gatggcattt tgaaaaacag caaagttgaa gtcaagtgat 600
tttgctgggt cngaatacat tgttgccctc gttgggagaa aggtntccaa cacatacccc 660
gggattngtt att

```

&lt;210&gt; 264

&lt;211&gt; 661

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 264

```

ccatccaaga taacttttatt ccatttttga ttatttgata actatttcct tccccctccc 60
acctccaact gcatctccta ctctgaaatn cctcttgagc agccaagggt ggccagttct 120
gtccttcatt ttctgaaga anaatctcag cctgaaagaa tatagagcta ggtgacatat 180
gggtggccaa ccgcttctcc tcaagttcca anagagtggg caattagtga aattccatca 240
gtcatgttaa aatatacttt caccaggtan acatccttct ttcaatgcta gaggacagtg 300
aaaaatgtag attaatagaga tctgtaactg tcttctctta actgtacacc cctcaggctg 360
aacgcgggag tgctgaacac atgccctcgg aagggaccct gaagacccaa gtgacctgca 420
ccataaaacc accccgaggg tcagccatgc tgccagcact caagaagcag cagggccacc 480
tgctggaaaa ctgggcacgg ctctgggtgc ctggccctgc ctgcctcctc cacgtccttg 540
gagccaggtc tacggcaggg aacatgatct tcttctccag cttctgtgga aggaacanga 600
aatttttcat gatgtcntcc agctcttcta nggccaactg ggcattgganc ttggccacgt 660
c

```

&lt;210&gt; 265

&lt;211&gt; 659

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 265

```

ccatccaana taacttttatt ccatttttga ttatttgata actatttcct tccccctccc 60
acctccaact gcatctccta ctctgaaatg cctcttgagc agccaagggt ggccagttct 120
gtccttcatt ttctgaana anaatctcag cctgaaagaa tatanagcta ggtgacatat 180
gggtggccaa ccgcttctcc tcaagttcca ananagtggg caattagtga aattccatca 240
gtcatgttaa aatatacttt caccaggtan acatccttct ttcaatgcta gaggacagtg 300
aaaaatgtag attaatagaga tctgtaactg tcttctctta actgtacacc cctcaggctg 360
aacgcgggag tgctgaacac atgccctcgg aagggaccct gaagacccaa gtgacctgca 420
ccataaaacc accccgaggg tcagccatgc tgccagcact caaaaagcag cagggccacc 480
tgctggaana actgggcacg gctctgggtg cctggccctg cctgcctcct ccacgtcctt 540
gganccaggt ctacggnagg accatgatct tcttctccan cttctgtgga aggaacanga 600
antttttcat gatgtcntcc actcttctag ggccaactg gcatggactt ggccacgtc 659

```

&lt;210&gt; 266

&lt;211&gt; 620

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 266

```

ccatccaaga taacttttatt ccatttttga ttatttgata actatttcct tccccctccc 60
acctccaact gcatctccta ttntnaaatg cctcttgagc agccaagggt ggccagttct 120
gtccttcatt ttctgaana anaatctcag cctgaaagaa tatagagcta ggtgacatat 180
gggtggccaa ccgcttctcc tcaagttcca ananagtggg caattagtga aattccatca 240
gtcatgttaa aatatacttt caccaggtan acatccttct ttcaatgcta gaggacagtg 300
aaaaatgtag attaatagaga tctgtaactg tcttctctta actgtacacc cctcaggctg 360

```



aacgcgggag	tgctgaacac	atgccctcgg	aagggaccct	gaagacccaa	gtgacctgca	420
ccataaaacc	accccgaggg	tcagccatgc	tgccagcact	caagaagcag	cagggccacc	480
tgctggaaga	cctgggcacg	gctctgggtg	cctggccctg	cctgcctcct	ccacgtcctt	540
ggagccaggt	ctacngcang	aacatgatct	tcttctccac	ttctgtggaa	ggaacaggaa	600
ntttttcatg	atgtcatcca					620

&lt;210&gt; 267

&lt;211&gt; 745

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 267

ccccccagac	aggcctgcag	tcaaatgctc	caatcattcc	tcaaggagtc	aatgagccca	60
gcactactac	aagtcagaaa	tctggaagcg	taaccacaga	acagctccaa	gaggttcctt	120
tgctcagctta	tgaccctcaa	attccaacac	gggctgctgc	cctgcgtact	ctttcccact	180
ggatagagca	gagagaagca	aaagcccttg	agatgcaaga	gaagcttctc	aagatattct	240
tggaaaactt	ggaacatgaa	gacacttttg	tatatctatc	tgcaattcag	ggggttgccc	300
tgctgtcaga	cgtctatcct	gagaaaatct	tgccggactt	gttgggtcaa	tatgacagca	360
gcaaagacaa	gcacacacca	gagaccaaga	atgaaagtgc	gggaagtcct	tatgcgaatc	420
gtcagggcat	taggagacat	ggtctcaaag	taccgagaac	ctttgatcca	taccttcctg	480
aggggagtg	gagatcctga	tggtgctcac	agggccagca	gcttgggcaa	ccttggggag	540
ctgtgccaga	ggctggactt	tctgctgggc	tccgtggctc	atgaggtaac	agcttgcttg	600
attgctgtgg	ccaaaaacat	tntntgaaag	ttcaagttcg	cannagctgg	ccaanacaat	660
gtgggggtgt	gcctgcnngc	tttcggggga	actcaacca	agaaaaagct	tantgtaagg	720
gtggnntaan	ccnccggtec	ttcaa				745

&lt;210&gt; 268

&lt;211&gt; 676

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 268

ccatccaaga	taactttatt	ccattttgca	ttatttgata	actatttctc	tccccctccc	60
acctccaact	gcattctcta	ctctgaaatg	cctcttgagc	agccaagggt	ggccagttct	120
gctcctcatt	ttcctgaana	anaatctcag	cctgaaagaa	tatagagcta	ggtgacatat	180
gggtggccaa	ccgcttctcc	tcaagttoca	ananagtggg	caattagtga	aattccatca	240
gtcatgttaa	aatatacttt	caccaggtag	acatccttct	ttcaatgcta	gaggacagtg	300
aaaaatgtag	attaatgaga	tctgtaactg	tcttctctta	actgtacacc	cctcaggctg	360
aacgcgggag	tgctgaacac	atgccctcgg	aagggaccct	gaagacccaa	gtgacctgca	420
ccataaaacc	accccgaggg	tcagccatgc	tgccagcact	caagaagcag	cagggccacc	480
tgctggaana	cctgggcacg	gctctgggtg	cctggccctg	cctgcctcct	ccacgtcctt	540
gggagccagg	tctacggcag	ggaacatgat	cttcttctcc	agcttctgtg	gaaggaacag	600
gaagtttttc	atgatgtcat	ccanctcttc	taaggccaac	tgggcatgga	acttggccac	660
gtcatcgggc	tcctaaa					676

&lt;210&gt; 269

&lt;211&gt; 737

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 269

aacaaagaca	aagaaggcaa	ggttttctac	agcatcactg	gccaaggagc	tgacacaccc	60
cctgttggtg	tctttattat	tgaaagagaa	acaggatggc	tgaagctctt	ctctcacgct	120
gtgtcatcca	acgggaatgc	agttgaggat	ccaatggaga	ttttgatcac	ggtaaccgat	180
cagaatgaca	acaagcccga	attcaccacg	gaggtcttta	aggggtctgt	catggaaggt	240

gctcttccag	gaacctctgt	gatggaggtc	acagccacag	acgcggacga	tgatgtgaac	300
acctacaatg	ccgcatcgc	ttacaccatc	ctcagccaag	atcctgagct	ccctgacaaa	360
aatatgttca	ccattaacag	gaacacagga	gtcatcagtg	tggtcaccac	tgggctggac	420
cgagagagtt	tccctacgta	taccctgggtg	gttcaagctg	ctgaccttca	aggtgagggg	480
ttaagcacia	cagcaacagc	tgtgatcaca	gtcactgaca	ccaacgataa	tcctccgac	540
ttcaatccca	ccacgtacaa	gggtcangtg	cctganaaag	aaggctaacg	tcgttatcac	600
caacactgaa	aagtgactga	tgctgatgc	cccccaatta	nccanccgt	gggaagctgt	660
ntacaccata	tngaaatgat	gatgggtggg	cnaatttgn	cgttcaccaa	caaatnccan	720
gtggaacaac	caatggg					737

&lt;210&gt; 270

&lt;211&gt; 726

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 270

ccatccaaga	taactttatt	ccatthtgca	ttatthtgata	actatthtct	tccctcccc	60
acctccaact	gcatctccta	ctctgaaatg	cctcttgagc	agccaagggt	ggccagttct	120
gctcctcatt	ttctgaaana	anaatctcag	cctgaaagaa	tatanagcta	ggtgacatat	180
gggtggccaa	ccgcttctcc	tcaagttcca	ananagtggg	caattagtga	aattccatca	240
gtcatgttaa	aataactttt	caccaggtan	acatccttct	ttcaatgcta	gaggacagtg	300
aaaaatgtag	attaatgaga	tctgtaactg	tcttctctta	actgtacacc	cctcaggctg	360
aacgcgggag	tgctgaacac	atgccctcgg	aagggaccct	gaagacccaa	gtgacctgca	420
ccataaaaacc	accccgaggg	tcngccatgc	tgccagcact	caanaagcag	cagggccacc	480
tgctggaana	cctgggcacg	gctctgggtg	cctggccctg	cctgcctcct	ccacgtcctt	540
ggagccagggt	ctacggcagg	aacatgatct	tcttctccac	ttctgtggaa	ggaacangaa	600
atthttcatg	atgtctccan	ctcttctagg	gccactgggc	atggancttg	ggcnctcat	660
cgggtccaa	anacactact	gcttcancag	gtgggtanaa	atccttgaag	angggctcac	720
acctcc						726

&lt;210&gt; 271

&lt;211&gt; 814

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 271

ccatccaaga	taactttatt	ccatthtgca	ttatthtgata	actatthtct	tccctcccc	60
acctccaact	gcatctccta	ctctgaaatg	cctcttgagc	agccaagggt	ggccagttct	120
gctcctcatt	ttctgaaaga	agaatctcag	cctgaaagaa	tatagagcta	ggtgacatat	180
gggtggccaa	ccgcttctcc	tcaagttcca	agagagtggg	caattagtga	aattccatca	240
gtcatgttaa	aataactttt	caccaggtag	acatccttct	ttcaatgcta	gaggacagtg	300
aaaaatgtag	attaatgaga	tctgtaactg	tcttctctta	actgtacacc	cctcaggctg	360
aacgcgggag	tgctgaacac	atgccctcgg	aagggaccct	gaagacccaa	gtgacctgca	420
ccataaaaacc	accccgaggg	tcagccatgc	tgccagcact	caagaggcag	cagggccacc	480
tgctggaaga	cctgggcacg	gctctgggtg	cctggccctg	cctgcctcct	ccacgtcctt	540
ggagccagggt	ctacggcagg	accatgatct	tcttctccag	cttctgtggg	agggaaacagg	600
gaagtttttc	aatgatgtca	tcagctctt	cctanggccca	actgggcaag	ggagcttggg	660
caacgtcatc	ggggtccag	acaaaactac	gtgcttcanc	aanggtggta	aaanactcct	720
gaaggacggg	ggctcaacaa	cccaagtanc	ctttccnggg	ctgaatcccc	ngaagcaagc	780
aagnacaaac	cacatgtttt	gggaagctcc	ggcg			814

&lt;210&gt; 272

&lt;211&gt; 862

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 272

gtacactgaa	cagaaaagat	ctggaaggga	aaatagaaga	gcagcaacaa	accagtcatg	60
aaagacccac	tgatgtagct	catagccacc	ttgaacaaca	gcagagccat	gagacagccc	120
cccagacagg	cctgcagtca	aatgctccaa	tcattcctca	aggagtcaat	gagcccagca	180
ctactacaag	tcagaaatct	ggaagcgtaa	ccacagaaca	gctccaagag	gttcttttgt	240
cagcttatga	ccctcaaatt	ccaacacggg	ctgctgccct	gcgtactctt	tcccactgga	300
tagagcagag	agaagcaaaa	gcccttgaga	tgcaagagaa	gcttctcaag	atattcttgg	360
aaaacttgga	acatgaagac	acttttgtat	atctatctgc	aattcagggg	gttgccttgc	420
tgctcagacgt	ctatcctgag	aaaatcttgc	cggacttggt	ggctcaatat	gacagcagca	480
aagacaagca	cacaccagag	accaagaatg	aaagtcgggg	aagtccttat	gcgaatcgtc	540
agggcattag	ggagacatgg	tctcaaagta	ccgagaacct	ttgattcata	ccttcctgan	600
gggagtgaga	gattctggat	ggtgctcaca	agggcagcaa	cttgggcaan	cttgggggaa	660
ctggtgccag	aggctggact	ttcngctggg	gctccgtggg	ccaatggagg	gtacaanctt	720
gccctgaatt	gctgtgggcc	aaaaacaaga	tnngtgaaag	tttaaagtta	cgcaaaactg	780
ccaatacaat	gttgggttgt	tgccnngctg	gnnttccggg	ggaatcaagc	ccaggaaaag	840
cctaccggan	ggggccttaa	ac				862

&lt;210&gt; 273

&lt;211&gt; 677

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 273

ccatccaaga	taactttatt	ccatthttgca	ttatthtgata	actatthtct	tccccctccc	60
acctccaact	gcatctccta	ctctgaaatg	cctcttgagc	agccaagggt	ggccagttct	120
gctcctcatt	ttcctgaaga	agaatctcag	cctgaaagaa	tatagagcta	ggtgacatat	180
gggtggccaa	ccgcttctcc	tcaagttcca	agagagtggg	caattagtga	aattccatca	240
gtcatgttaa	aataactttt	caccagggtan	acatccttct	ttcaatgcta	gaggacagtg	300
aaaaatgtag	attaatgaga	tctgtaactg	tcttcnctta	actgtacacc	cctcaggctg	360
aacgcgggag	tgctgaacac	atgccctcgg	aagggacctt	gaagacccaa	gtgacctgca	420
ccataaaaacc	accccgaggg	tcagccatgc	tgccaagcac	tcaagaggca	gcagggccac	480
ctcctggaan	acctgggcac	ggnctctgggt	gcctggggcc	tgccctgcctc	ctccangtcc	540
ttggggccaa	gtctaaaggga	agggaccaat	gatcttcttc	cccaaacttc	tgtggagggg	600
aaaaaaggaa	ntttttcaag	gnngtcatcc	nangetcctc	caaggggnca	aaatgggggc	660
antggaacct	tgggcaa					677

&lt;210&gt; 274

&lt;211&gt; 863

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 274

gaaaacagca	aagttgaagt	caagtgattt	tgctgttctg	aagcagttgt	tgctctgttt	60
ggagaaggta	tccaacacat	accctgatcc	ggatcatcaa	gaactcgctg	ttgatctccg	120
catcaccatc	tctaccatg	gagcctttgc	catcgaggcc	gtcagcatgg	ctgccccaaag	180
tacactgaac	agaaaagatc	tggaaaggga	aatagaagag	cagcaacaaa	ccagtcatga	240
aagacccact	gatgtagctc	atagccacct	tgaacaacag	cagagccatg	agacagcccc	300
ccagacaggc	ctgcagtcaa	atgctccaat	cattcctcaa	ggagtcaatg	agcccagcac	360
tactacaagt	cagaaatctg	gaagcgtaac	cacagaacag	ctccaagagg	ttcttttgtc	420
agcttatgac	cctcaaattc	caacacgggc	tgctgccttg	cgtactcttt	cccactggat	480
agagcagaga	gaagcaaaaag	cccttgagat	gcaagagaag	cttctcaaga	tattcttggga	540
aaactttgga	catgaagaca	cttttgtata	tctatctgca	attcaggggg	ttgccttgc	600
gtcagacgtc	tatcctgaga	aaatcttgcc	ggacttgttg	gctcaatatg	acagcagcaa	660
agacaagcac	acaccaagag	accaagaatg	aaagtcgggg	aagtccttat	gccaatcgtc	720
anggcattag	ggagacatgg	tctcaaagta	accgagaacc	tttgattcat	accttctctga	780

aggggaatta gagattctga atgggtgctca cagggccaac aaccttggcn aaccttgggg 840  
aacctgtgcc anaaggctng gac 863

<210> 275  
<211> 821  
<212> DNA  
<213> Homo Sapiens

<400> 275  
ccatccaaga taactttatt ccattttgca ttatttgata actatttcct tcccccccc 60  
acctccaact gcatctccta ctctgaaatg cctcttgagc agccaagggt ggccagttct 120  
gctcctcatt ttcctgaaga agaatctcag cctgaaagaa tatagagcta ggtgacatat 180  
gggtggccaa ccgcttctcc tcaagttcca agagagtggg caattagtga aattccatca 240  
gtcatgttaa aatatacttt caccaggtag acatccttct ttcaatgcta gaggacagtg 300  
aaaaatgtag attaatgaga tctgtaactg tcttctctta actgtacacc cctcaggctg 360  
aacgcgggag tgctgaacac atgccctcgg aagggaacct gaagacccaa gtgacctgca 420  
ccataaaacc accccgaggg tcagccatgc tgccagcact caagaggcag cagggccacc 480  
tgctggaaga cctgggcacg gctctgggtg cctggccctg cctgcctcct ccacgtcctt 540  
ggagccagggt ctacggcagg accatgatct tcttctccaa gcttctgtgg agggacagg 600  
aagtttttca tgatgtcatc caagctcttc tanggccaac tgggcatgga gcttgggcac 660  
gtcatcgggc tccagacaca ctacgtgctt cancaagggt gtaaaagatt cttganggac 720  
gngctcanc acctcagtaa nctttctggc tgagtcccc gaaagcaaca gcacaancca 780  
catgtntngg aaacctgcg ttacttngaa cttcaacaac c 821

<210> 276  
<211> 722  
<212> DNA  
<213> Homo Sapiens

<400> 276  
aacagctgtg atcacagtca ctgacaccaa cgataatcct ccgatcttca atcccaccac 60  
gtacaagggt caggtgcctg agaacgaggc taacgtcgta atcaccacac tgaaagtgc 120  
tgatgtgat gcccccaata cccagcgtg ggaggtgta tacaccatat tgaatgatga 180  
tggtggacaa tttgtcgtca ccacaaatcc agtgaacaac gatggcattt tgaaaacagc 240  
aaagtgaag tcaagtgatt ttgctgttct gaagcagttg ttgcctctgt tggagaagg 300  
atccaacaca tacctgatc cggtcatcca agaactcgt gttgatctcc gcacaccat 360  
ctctacccat ggagcctttg ccaactgaggc cgtcagcatg gctgccccaa gtacactgaa 420  
cagaaaagat ctggaaggga aaatagaaga gcagcaacaa accagtcag aaagaccac 480  
tgatgtagct catagccacc ttgaacaaca gcagagccat gaagacagcc cccagacag 540  
gctgcagtc aaatgctcca atcattcctc aaggagtcaa tgagcccagc actactacaa 600  
gtcagaaatc tggaagcgtt accacagaac agctccaaga ggttcntttg tcagctttat 660  
gaacctcaaa ttccaacacg gggctggtgc ctgcgttact cnttccact gggntagaag 720  
ca 722

<210> 277  
<211> 805  
<212> DNA  
<213> Homo Sapiens

<400> 277  
ccatccaaga taactttatt ccattttgca ttatttgata actatttcct tcccccccc 60  
acctccaact gcatctccta ctctgaaatg cctcttgagc agccaagggt ggccagttct 120  
gctcctcatt ttcctgaaga agaatctcag cctgaaagaa tatagagcta ggtgacatat 180  
gggtggccaa ccgcttctcc tcaagttcca agagagtggg caattagtga aattccatca 240  
gtcatgttaa aatatacttt caccaggtag acatccttct ttcaatgcta gaggacagtg 300

aaaaatgtag	attaatgaga	tctgtaactg	tcttctctta	actgtacacc	cctcaggctg	360
aacgcgggag	tgtggaacac	atgccctcgg	aagggaacct	gaagacccaa	gtgacctgca	420
ccataaaacc	accccaggag	tcagccatgc	tgccagcact	caagaggcag	cagggccacc	480
tgctgggaag	acctgggcac	ggctctgggt	gcctggggccc	tgcctgcctc	ctccacgtcc	540
ttggagccaa	ggtctacggc	aggaccatga	tcttctcttc	cagcttctgt	ggagggaaca	600
ngaagttttt	caagatgtca	tccaactcct	ccaagggcca	actggggcat	gggagccttg	660
gcacgtcatn	cgggctccag	acacactacg	gtgcttcaac	aagggnggta	nagattcttg	720
anggacgggg	ctcaaacaat	gaacctcant	tacctttcng	gctgagtccc	cnaaagcaac	780
aagtacaaac	cacatgtttt	gggaa				805

&lt;210&gt; 278

&lt;211&gt; 1358

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 278

agaactcaga	gctgctcttc	ctctgtggcc	agttggggac	cagcatcatg	aagtggatgg	60
tggtgggtctt	ggtctgcctc	cagctcttgg	aggcagcagt	ggtcaaagtg	cccctgaaga	120
aatttaagtc	tatccgtgag	accatgaagg	agaagggctt	gctgggggag	ttcctgagga	180
cccacaagta	tgatcctgct	tggaagtacc	gctttgggtga	cctcagcgtg	acctacgagc	240
ccatggccta	catggatgct	gcctactttg	gtgagatcag	catcgggact	ccaccccaga	300
acttctctggt	ccttttttgac	accggctcct	ccaacttgtg	ggtgccctct	gtctactgcc	360
agagccaggc	ctgcaccagt	cactcccgtc	tcaaccccag	cgagtcgtcc	acctactcca	420
ccaatgggca	aaccttctcc	ctgcagtatg	gcagtggcag	cctcaccggc	ttctttggct	480
atgacaccct	gactgtccag	agcatccaan	gtccccaacc	aggagtccgg	cttgagttag	540
aatnagcctg	ggtaccaact	tcgtctaagc	gcagtttgat	ggcatcatgg	gcctggcctt	600
accctgctct	gtccgtggat	gaggccacca	cagtatgcag	ggcatgtgca	ggagggcgcc	660
ctnaaccagc	cccgtnntca	gggtttacnt	cagcaaccag	cagggctccc	agcgggggag	720
cggttgtcct	ttgggggtgt	ggatagcagc	ntgtacacgg	ggcagatcta	ctgggcgcnt	780
gtcaccacag	aactctactg	gcagattggc	attgaagagt	tcctcatcgg	cggccaggcc	840
tccggctggt	gttctgaggg	tgccagggcc	atcgtggaca	caggcacctc	tctgtctact	900
gtgcccccag	agtacatgag	tgctcttctg	caggccacag	ggggccagga	ggatgagtat	960
ggacagtttc	tcgtgaactg	taacagcatt	cagaatctgc	ccagcttgac	cttcatcatc	1020
aatggtgtgg	agttccctct	gccaccttcc	tcctatatcc	tcagtaacaa	cggctactgc	1080
accgtgggag	tcgagcccac	ctacctgtcc	tcacagaacg	gccagcccct	gtggatcctc	1140
ggggatgtct	tcctcaggtc	ctactattcc	gtctacgact	tgggcaacaa	cagagtaggc	1200
tttgccactg	ccgcctagac	ttgctgcctc	gacacgtggg	ctcccctctt	cctcttgacc	1260
ctgcaccctc	ctagggcatt	gtatctgtct	ttccactctg	gattcagcct	tctttttctg	1320
gactctggac	tttctctaata	aataaatagt	tcttctttt			1358

&lt;210&gt; 279

&lt;211&gt; 702

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 279

gaagcaatga	atacgcaatt	agaactttca	gaacaactta	aatttcagaa	caactctgaa	60
gataatgtta	aaaaactaca	agaagagatt	gagaaaatta	ggccaggctt	tgaggagcaa	120
atthttatct	tgcaaaagca	attagacgct	accactgatg	aaaagaagga	aacagttact	180
caactccaaa	atatcattga	ggctaattct	cagcattacc	aaaaaaatat	taatagtttg	240
caggaaagagc	ttttacagtt	gaaagctata	caccaagaag	aggtgaaaga	gttgatgtgc	300
cagattgaag	catcagctaa	ggaacatgaa	gcagagataa	ataagttgaa	cgagctaaaa	360
gagaacttag	taaaacaatg	tgaggcaagt	gaaaagaaca	tccagaagaa	atatgaatgt	420
gagttagaaa	atttaaggaa	agccacctca	aatgcaaac	aagacaatca	gatatgttct	480
attctcttgc	aagaaaatac	attttagtaa	caaagtagta	aatgaaaaag	tcaaacactt	540

agaagatacc	ttaaaaagaa	cttgaatctc	aacacagtat	cttaaaaaga	tgagggtaac	600
ttatatgaat	aatccttaag	tttaaaactt	gaaaatggga	tgccctcaacc	atttttaaagg	660
gtngagggtt	tttccangna	accgggggaa	gaccttaaaa	gg		702

&lt;210&gt; 280

&lt;211&gt; 874

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 280

aactcaaaac	agtgttaagt	tcctatgctg	ttagtactgt	atcttgtcca	cacctcaaac	60
aacagtgaga	tctctgagca	catgggtctgt	acctcaacca	cttttctatc	accagggtct	120
agaatagtgt	ggcattttaa	taaaatttgc	taaatgaatg	aaaaatccaa	aataaatcat	180
gaagccattt	ataaatcaca	ccaatcttgc	ttgggttaaa	caatagaaag	taacactttt	240
gaaagagaag	gcaaacaggt	gttagagggg	caagaatgtg	agctcgagga	aaagacagct	300
acgaactgtg	tttttaacaa	ctcattatct	ggctactata	tttcccaatc	tattctaaca	360
ctaagaagaa	tctgtcta	taattgtgac	aacatctgca	aaaccatagt	tacctatttt	420
ttcttccaac	tcttttactg	aagacagagg	atcatttttt	acagaagggtg	attttgctaa	480
ggaatcctan	atttttacagg	ggggaaaaaa	aaacacnaaa	caaaaacaaa	accagaatca	540
gaattcattt	tcataatga	actggccatc	ntgttaagca	taanaaaatc	actatcaaag	600
anaattccta	cagaaaccaa	tttggtcaca	gaatttcctt	tggttanacca	gaaaattaat	660
actgaactta	ctatgcatat	ggcatttact	attaaaaaaa	aaaaagtant	aaccaaggcc	720
aaganaaaca	acctgaaaca	ttaaatacat	ntttataaag	aaaaantaaa	tgaattttta	780
tcttaatttt	aaanaaaaac	cnaaaatttt	nncatacccc	cccgtctcta	cttaaaaant	840
gncttaccaa	aataactaanc	ctttcccaaa	aacc			874

&lt;210&gt; 281

&lt;211&gt; 730

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 281

acaaaacagc	agctggaaag	agaaatgtag	gtggcgagacg	agccaggcac	gagggtttcag	60
attggaaggg	accaagatga	ggaccaaggt	gtggctgcct	gactaggaac	gctgtgggct	120
ggcccaggct	ctcgccacac	atcctgggan	aactgccata	ggccctagaa	ggagggatga	180
aaggcgtagt	ggaggggaana	cagcgggtccc	cggatcagca	gcagcaccac	catcctctga	240
tggcccctgg	gcagtcgcc	agctcggaag	cactcagggc	tggagcctgg	gctctaagca	300
tgggccccag	gagccanaca	ggagggaggc	agcaggaang	gctggcatgg	aagggtctgag	360
ttctattggg	gtcccacgcg	ggcaagggaa	ccaggactca	tccttgcctg	tcagccaatc	420
agcttcttca	ggaagcctcc	aactgatcct	catccttgat	gccacaaaac	ttgtccacca	480
cgtccccatt	cttcatggcc	agcacagtgg	gcaccgtga	cacctcatac	tcaatggcga	540
agtctgtgtg	gtentcaata	tcaccttgg	ccatcaccac	cttcccgtgc	tgcttggeca	600
ccatcttctc	taacctccgn	cccangatct	tcagggtcca	caccactgtg	cgtggaaatc	660
cacaaccact	ggtgtctcct	gtttgaacac	tccgtcttga	aantcngtcc	ntcctgnata	720
ttaaagggtg						730

&lt;210&gt; 282

&lt;211&gt; 699

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 282

agaactcaga	gctgctcttc	ctctgtggcc	agttggggac	cagcatcatg	aagtggatgg	60
tggtgggtctt	ggtctgcttc	cagctcttgg	aggcagcagt	ggtcaaagtg	cccctgaaga	120
aatttaagtc	tatccgtgag	accatgaagg	agaagggtct	gctgggggag	ttcctgagga	180

```

cccacaagta tgatcctgct tggaaagtacc gcttttggatga cctcagcgtg acctacgagc 240
ccatggccta catggatgct gcctactttg gtgagatcag catcgggact ccaccccaga 300
acttcctggg cctttttgac accggctcct ccaacttgtg ggtgccctct gtctactgcc 360
agagccaggc ctgcaccagt cactcccgtt tcaaccccag cgagtcgtcc acctactcca 420
ccaatgggca aaccttctcc ctgcagtatg gcagtggcag cctcacgggc ttctttggct 480
atgacaccct gactgtccag agcatccaan gtccccaacc aggagttcgg cttgagttag 540
aatnagcctg ggtaccaact tcgtctaagc gcanttttga tgggatcaag ggccctgggcc 600
taacctggct ctgtcccgtt ggattaaggc caccacaagc tatntagggc nattnggntc 660
aaggatgggt gtcnctttat nnagcccccg tnccttcaa 699

```

&lt;210&gt; 283

&lt;211&gt; 759

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 283

```

gaaattgaga actgatttaa tactaaagtt ctgaataaag gtgtgcactt tatgattgat 60
tctatctttt tgcacaagtt ggatactcca gtttcccatc ccaacatggt gtctgcaatg 120
tgtgagaacg tgatgaaaga cgatatcccc gtttacacac aaattcaact gattcacctg 180
ttctcgaata aagcttctgt ttggctgtcc accttaatgc tatgttataa ttttccataa 240
tttctcggga tattacacac ggatgtaagc attttgggtg ttctgacctg tgtccatttc 300
tacatgttat tcgcttggtt ccctcaagtt gatacaagtt ctggcattgg tactcaactg 360
atgaagcttg agcatatact gacaacggga atgaagtaat gtcccatttg tcaatagggtg 420
gagggggccc acattttcct gtagaatcct tgcattgagg tggttccgtc cagtttccat 480
ttaaacacat cacttcttca tccccaaaca tttcataagg gctcctacat tgataacgta 540
ctctctcacc agatggatat ttactcatct gtctcgacac tatataagca ttttgactg 600
tgggcggtat ccacangang tgtctctgca tgttgggctt cctgtccact gctattaatg 660
catgttacat tactggctcc accattttgt aatatgttgc acaagtttta gtcccttgctc 720
acccccttat acacatcctt ctctctccat ggggttggc 759

```

&lt;210&gt; 284

&lt;211&gt; 764

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 284

```

ggaccgcgat gacgcagact ggaggagggt gatgatgcc tattcgacag aactgatatt 60
ttatattgaa atggatcctc cagctcttcc accaaagcca cctaagccaa tgacttcagc 120
agttccaaca tggatgaag gacagttctg tttctcttca ggatgcagaa tggtagtggg 180
gggatatttc aaggaggag gtaaatgaca aattgcggga tatgccagat gggaccttct 240
tggtcggaga tgcctcaaca aaaatgcagg gagattatac tttgactttg cggaaggag 300
gcaataataa gttaataaag atctatcacc gggatggtta atatggcttt tctgacctc 360
tgacatttaa ttccgtgggt gagctcatta accactatca ccatgaatct cttgctcagt 420
acaatcccaa acttgatgtg aagctgatgt acccaagtgt ccagatacca acaggatcag 480
ttggtaaaag aagataatat tgatgcagta ngtaaaaaac tgcaagaata ccactctcaa 540
gtatcaggag aagagtaaag gagtatgata ngctgtatga agaataact agaacatccc 600
aaggaaatag agatgaagag gactgcaata gaaagctttt aatgaaaaca ttaaaatatt 660
tgggaagagca ntgtcacaca caaggaacca acattnccaa agaataatatt gagnngattt 720
cncaaaaanaa ggggaaatga aaagggggan ttgaacgaaa tttta 764

```

&lt;210&gt; 285

&lt;211&gt; 586

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

<400> 285  
gcattgcacc ttttctttac ccatacaaac aagttacaaa ggtttcaaac aacagntcat 60  
tctttaggct aaggaaacac catacaagca ccaacttcat tttangattc aaagctcacc 120  
atccccacaa aaagaatgct attccncatc tcagagaaac aggcaggaag gacanaaggg 180  
gttagttaca gtgatcaatt ttagcgtttg ctaaaacnca caaattcnag nctttttaag 240  
ttcaagtttt ggtacagaag tatacattca actatgagtg ccacgttttc ccatcaaaaca 300  
ttggngctggc aacaaactgt tttgttggct tctgaacata atacttcttc anagggaggg 360  
gctggtgaaa tgctgaancc taaattatgt tggnaagaaa caaagtacct tcanttgaag 420  
gtttttttta acanctnggc ttaaattatt taaatgaaan cccaagcctc ccnatttncc 480  
tttggtngcc ttttncanaa aatccccattc natcacaaaa ccctaaaaag ccttcttcgt 540  
nggggggaaa aaananactg ccaaangcaa aaacaaaaac ncccaa 586

<210> 286

<211> 666

<212> DNA

<213> Homo Sapiens

<400> 286  
gcctggaggtt cagtgggtgc agcctgcttg cgagctgagg ccagacaggg gggcgcttac 60  
ggacggaaaa gaaaagttga ttacaaacgg gaccatattt tgcttcgaaa tggaccagc 120  
agttagcgag ccaatgagag accaagtcgc acggactcat ttgacagagg aactcccaa 180  
agtgaatgct gacatagaaa aggttaacca gaatcaggcc aagagatgca cagtgatcgg 240  
gggctctgga ttcttggggc agcacatggt ggagcagttg ctggcaagag gatatgctgt 300  
caatgtattt gatatccagc aagggtttga taatccccag gtgcggttct ttctgggtga 360  
cctctgcagc cgacaggatc tgtaccagc tctgaaaggt gtaaacacag ttttccactg 420  
tgcgtcacc ccaccatcca gtaacaacaa ggagctcttt tatagaagtg aattacattg 480  
gcaccaagaa tgtcattgaa acttgcaaaag aggctggggg tcagaaactc attttaacca 540  
gcagtgccat gtcattcttg agggcgctga tatcaagaat ggaactgaaa gaccttccct 600  
nagccattga aaccaattga cctactacac aaganactaa agatcttaca ngagaaggca 660  
atttct 666

<210> 287

<211> 782

<212> DNA

<213> Homo Sapiens

<400> 287  
gacagagaac aaatcgggtat aatatgaagc tgcctgcttc aagaaatcca aatccagttc 60  
catgaaggaa gaaatgtctg tttttgccgc cctcatcgct acggaaagag taggggtcgc 120  
tctctgccta gcagaaggag tcacaggctc agagcaaact cattcaaagg atgttatctc 180  
atcaatccac aggggaagga gtgactggct gagcaacgtg tcgagagagc ccagcctcca 240  
gtgtccctca cttgaccctc cgcaggtggc gaaagctctg cacggctctc tccatagcat 300  
catccatggt cactagtggc tggtagccca tggccttttt ggctctctcg cagctgtagt 360  
agtggaatgt gccagccagt ggcagccgca tgggtgtgaa ggtgggctgc agctggatga 420  
caggactgat caccatcacc agcagggata gcaggagggc caggtagtag gccaccagt 480  
aggggatgtg gtacttgggg gcctcataat tgaggcctgt caaggatgct agacaggaat 540  
gtccaaaaag ggtatgggctc atcattggtg atgtgaaatg ccttccacc cagtgtcgag 600  
tctcngggan anctgctctg ccgccaagat tgtccatggg accaaggttc tcacaaaggt 660  
gaaagtccac caagtctctc ccaatttcca atcacgaaac ttcaaccttg ccgttcttg 720  
ctgcctccat gaaggatggg ttacaaactg ccgggttccc tttggggccg aaaaattgcc 780  
aa 782

<210> 288

<211> 707

<212> DNA



&lt;213&gt; Homo Sapiens

&lt;400&gt; 288

gtggttccag	cgccggtttt	gaccgccaca	ttaccatttt	ttcaccgag	ggtcggctct	60
accaagtaga	atatgctttt	aaggctatta	accaggggtg	ccttacatca	gtagctgtca	120
gagggaaaga	ctgtgcagta	attgtcacac	agaagaaagt	acctgacaaa	ttattggatt	180
ccagcacagt	gactcactta	ttcaagataa	ctgaaaacat	tggttggtg	atgaccggaa	240
tgacagctga	cagcagatcc	caggtacaga	gggcacgcta	tgaggcagct	aactggaaat	300
acaagtatgg	ctatgagatt	cctgtggaca	tgctgtgtaa	aagaattgcc	gatatttctc	360
aggtctacac	acagaatgct	gaaatgaggg	ctcttggttg	ttgtatgatt	ttaattggta	420
tagatgaaga	gcaaggccct	caggtatata	agtgtgatcc	tgagggttac	tactgtgggt	480
ttaaagccac	tgacgaggga	gttaaacaaa	ctgagtcac	cagcttcctt	gaaaaaaaaa	540
tgaagaagaa	atttgattgg	acatttgaac	agacagtggg	aactgcaatt	acatgcctgt	600
ctactgttcc	atcaattgan	ttcaaacctt	cagaaataga	aattgggagt	aatgacagtt	660
gaaaatccta	aattcangan	tcctacagaa	gcagagattg	atgctca		707

&lt;210&gt; 289

&lt;211&gt; 673

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 289

atggcaccat	cacaacaaag	gaacttgga	ctgtcatgag	gtcactgggt	cagaacccaa	60
cagaagctga	attgcaggat	atgatcaatg	aagtggatgc	tgatggtaat	ggcaccattg	120
acttccccnn	atttttgact	atgatggcta	gaaaaatgaa	agatacagat	agtgaagaag	180
aaatccgtga	ggcattccga	gtctttgaca	aggatggcaa	tggttatatc	agtgcagcag	240
aactacgtca	cgctcatgaca	aacttaggag	aaaaactaac	agatgaagaa	gtagatgaaa	300
tgatcagaga	agcagatatt	gatggagacg	gacaagtcaa	ctatgaagaa	ttcgtacaga	360
tgatgactgc	aaaatgaaga	cctactttca	actccttttt	ccccctcta	gaagaatcaa	420
attgaatctt	ttacttacct	cttgcaaaaa	aaaaaaaaat	aagncanaaa	annnataaaa	480
aaaaaaaaac	gagagtactt	ctaaagcggc	cgcgggcena	tcgattttcc	acccgggtgg	540
ggtaccaggt	aagtgtccca	attcgcccta	taggggagtc	gtattacaat	tcacggggcc	600
gtcgttttta	aaacgtcntg	acgggggaaa	accctggngt	taccaactta	atcccccttg	660
caacaaatnc	ccc					673

&lt;210&gt; 290

&lt;211&gt; 573

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 290

gcaagaggta	agtaaaagat	tcaatttgat	tcttctanag	gggggaaaaa	ggagttgaaa	60
gtaggtcttc	attttgagc	catcatctgt	acgaattctt	canagttgac	ttgtccgtct	120
ccatcaatat	ctgcttcnct	gatcatttca	tctacttctt	catctgttag	tttttcnccn	180
aagtttgtca	tgacgtgacg	tagttctgct	gcactgatat	aaccattgcc	atccttgtca	240
aagactcgga	atgcctcacg	gatttcttct	tcactatctg	tatctttcan	ttttcnagcc	300
atcatagtca	aaaattcggg	gaantcaatg	gngccattac	catcagcatc	cacttcattg	360
atcatatcct	gnaattcaan	cttctgttgg	gtnttgaccc	antgaccnca	nggacaagtt	420
ccaagttccc	tttggttggtg	aagggtgcca	nctcgtgccc	gaattccttt	gggntccnac	480
gangggctcna	accctgcana	ggngccgcga	ancctccaan	cttttggttc	ccctttanac	540
ngaggggttaa	atttcgaact	ttggnntttt	tcc			573

&lt;210&gt; 291

&lt;211&gt; 819

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 291

aaagaagaac	tattttattat	tagagaaagt	ccagagtcca	gaaaaagaag	gctgaatcca	60
gagtggaaag	acagatacaa	tgccctagga	gggtgcaggg	tcaagaggaa	gaggggagcc	120
cacgtgtcga	ggcagcaagt	ctaggcggca	gtggcaaaagc	ctactctgtt	gttgcccaag	180
tcgtagacgg	aatagtagga	cctgaggaag	acatccccga	ggatccacag	gggctggccg	240
ttctgggagg	acaggtaggt	gggctcgact	cccacgggtgc	agtagccgtt	gttactgagg	300
atataggagg	aagggtggcag	agggaaactcc	acaccattga	tgatgaaggt	caagctgggc	360
agattctgaa	tgctgttaca	gttcacgaga	aactgtccat	actcatcctc	ctgggcccct	420
gtggcctgca	gaagagcact	catgtactgc	tggggcacag	tgagcagaga	ggtgcctgtg	480
tccacgatgg	cctggcaacc	ctcagaacac	cagccggagg	cctggccgcc	gatgaggaac	540
tcttcaatgc	caatctgcca	gtagagtcc	tgggtgacan	gcgccagta	gatctgcccc	600
gtgtacangc	tgctatccac	acccccaaag	gacaaccgct	cccccgctgg	gagccctgct	660
ggttgctgan	gtaaaccctg	aanacggggc	tggtnaggg	cgccctcctg	cacatgccct	720
gcatactgtg	gtggcctcat	ccacggnca	aaccanggta	aggcaaggcc	catgatgcca	780
tcaaactgcc	ataacaaatt	tgtacaaggc	tcaatccca			819

&lt;210&gt; 292

&lt;211&gt; 664

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 292

ctcgcgctcg	cgctgggtggc	ggtcgcctgg	gtccgcgcgcg	aggaagagct	aaggagcaaa	60
tccaagatct	gtgccaatgt	gttttgtgga	gccggccggg	aatgtgcagt	cacagagaaa	120
ggggaaccca	cctgtctctg	cattgagcaa	tgcaaacctc	acaagaggcc	tgtgtgtggc	180
agtaatggca	agacctacct	caaccactgt	gaactgcata	gagatgcctg	cctcactgga	240
tccaaaatcc	aggttgatta	cgatggacac	tgcaaaagaga	agaaatccgt	aagtccatct	300
gccagcccag	ttgtttgcta	tcagtccaac	cgtgatgagc	tccgacgtcg	catcatccaa	360
tggtgggaan	ctgagatcat	tccagatggc	tggttctcta	aaggcagcaa	ctacagtga	420
atcctagaca	agtattttta	agaactttga	taatggtgat	tctcgcctgg	actccaagtg	480
aattcctgaa	gtttgtggga	acangaatga	aactgccata	aatattacaa	cgtttccagn	540
accaaggagg	aacaacaagt	ttgcctaang	ggactccggg	ngttgatgcc	tctcaatttg	600
aactggtctg	gatgaaaaat	gcctgattgg	gnaattnaag	cttcccaant	agtttcccca	660
aatg						664

&lt;210&gt; 293

&lt;211&gt; 719

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 293

cactttaatt	tctttattca	tcaatagtat	ccgaaaagga	agaatcagga	gttacaaaaa	60
caagttaaat	gcaatatana	agcctactaa	atacaaatac	aagttcacaa	acacatatgc	120
aacagaaaact	tgtttanatt	gtttcttgaa	gtttgactac	ttaaaaacat	aggtgtaaaag	180
gaaagacatt	cagactggtc	cacgtgggct	tgtagcagg	canaggaacc	ctgctttcca	240
aaaactgata	tagtccaaag	tcacggcatg	tgggaatgtt	tccatggaca	ctggatctta	300
acagatgcta	tagtgtttac	aaaactacac	acacagagaa	agcccaagga	agcctgcagg	360
ctaagcccta	tgcttttaga	gggctgaagg	aaccaaaccct	agtttaattcc	tgtttgcttg	420
ctccatgcaa	aactttatgg	aagactcccc	agactaggct	atttagcagc	ttccatgaat	480
ggtcctcaga	tcatgtgatt	ctacggcata	nacgacagct	gccctattta	cacagaagct	540
gcagaactca	agaagaatgt	ggatttgctc	ttggganttcc	aatgttgagc	ggtanantaa	600
tcttgggatg	ataaccatgt	tctaaatgac	tagtgaanaa	acctgtgggt	tcttgctttt	660
aacaaatttg	tgtactcttg	cccctcccat	aatgtccaag	ggctgggtaa	aacctttga	719

<210> 294  
 <211> 762  
 <212> DNA  
 <213> Homo Sapiens

<400> 294  
 agctaaggag caaatccaag atctgtgcc aatgtgtttt tggagccggc cgggaatgtg 60  
 cagtcacaga gaaaggggaa cccacctgtc tctgcattga gcaatgcaaa cctcacaaga 120  
 ggctgtgtgt tggcagtaat ggcaagacct acctcaacca ctgtgaactg catcgagatg 180  
 cctgcctcac tggatccaaa atccaggttg attacgatgg aactgcaaa gagaagaaat 240  
 ccgtaagtcc atctgccagc ccagttgttt gctatcagtc caaccgtgat gagctccgac 300  
 gtcgcatcat ccagtggtg gaagctgaga tcattccaga tggctgggtc tctaaaggca 360  
 gcaactacag tgaaatccta gacaagtatt ttaagaactt tgataatggg gattctcgcc 420  
 tggactccag tgaattcctg aagtttgttg aacagaatga aactgccatc aatattacaa 480  
 cgtatccaga ccaggagaac aacaaagttg cttaggggac tctgtgttga tgccctcatt 540  
 gaactgtctg gatgaaaatg ctgattggna actcagcttc caagagtttc tcaaagtggc 600  
 ctcaaaccac tctttcaacc ctctgagaa agaagtgtgc cctgngaggg attaaacgta 660  
 atgcagatgg agnctgagac cnaaggtgga ccngtnacc gcctgtgtcc ggtgcccggg 720  
 ggaaattggg tcnggtncag ccatgaacct gttacgggaa ag 762

<210> 295  
 <211> 708  
 <212> DNA  
 <213> Homo Sapiens

<400> 295  
 cactttaatt tctttattca tcaatagtat ccgaaaagga agaatcagga gttacaaaaa 60  
 caagttaaat gcaatataga agcctactaa atacaaatac aagttcacia acacatatgc 120  
 aacagaaact tggttanatt gtttcttgaa gtttgactac ttaaaaaacat aggtgtaaag 180  
 gaaagacatt cagactgggc cagctgggct tggttagcagg cagaggaacc ctgctttcca 240  
 aaaactgata tagtccagag tcacggcatg tgggaatgtt tccatggaca ctggatctta 300  
 acagatgcta tagtgtttac aaaactacac acacagagaa agcccaagga agcctgcagg 360  
 ctaagcccta tgcttttaga gggctgaagg aaccaaacct agtttaatcc tgtttgtttg 420  
 ctccatgcaa aactttatgg aagactcccc agactaggct atttagcagc ttccatgaat 480  
 ggtcctcaga tcatgtgatt ctacggcata gacgacagct gccctattta cacagaagct 540  
 gcagaactca agaggaatgt ggatttgctc ttgggagttc aatgttgagc ggtaaaagta 600  
 gtccctggatg ataaccatgt tccaaatgac taagtgaaga gacactgtgg gttcctgcct 660  
 tttacaaaaa tgggggtact cctgccccctc ctccccanaa atgtccaa 708

<210> 296  
 <211> 652  
 <212> DNA  
 <213> Homo Sapiens

<400> 296  
 cactttaatt tctttattca tcaatagtat ccgaaaagga agaatcagga gttacaaaaa 60  
 caagttaaat gcaatataga agcctactaa atacaaatac aagttcacia acacatatgc 120  
 aacagaaact tggttanatt gtttcttgaa gtttgactac ttaaaaaacat aggtgtaaag 180  
 gaaagacatt cagactgggc cagctgggct tggttagcagg cagaggaacc ctgctttcca 240  
 aaaactgata tagtccagag tcacggcatg tgggaatgtt tccatggaca ctggatctta 300  
 acagatgcta tagtgtttac aaaactacac acacagagaa agcccaagga agcctgcagg 360  
 ctaagcccta tgcttttaga gggctgaagg aaccaaacct agtttaatcc tgtttgtttg 420  
 ctccatgcaa aactttatgg aagactcccc aagactaggc tatttagcag cttccatgaa 480  
 tggctcctcag atcaagtgat tctacggnat anacgacaag ctgccctatt tacacagaag 540  
 ctgcangaac tcaagaggga atgtgggatt gccctggggg agttcaatgg ttgcangggg 600

aaaagttant cttgggntga ataaccaggt ttctaaaatg accaaattga aa 652

<210> 297

<211> 879

<212> DNA

<213> Homo Sapiens

<400> 297

cactttaatt	tctttattca	tcaatagtat	ccgaaaagga	agaatcagga	gttacaaaaa	60
caagttaaat	gcaatataga	agcctactaa	atacaaatac	aagttcacaa	acacatatgc	120
aacagaaaact	tgtttagatt	gtttcttgaa	gtttgactac	ttaaaaacat	aggtgtaaag	180
gaaagacatt	cagactggtc	cacgtgggct	tgtagcagg	cagaggaacc	ctgctttcca	240
aaaactgata	tagtccagag	tcacggcatg	tggaatggt	tccatggaca	ctggatctta	300
acagatgcta	tagtgtttac	aaanctacac	acacagagaa	agcccaagga	agcctgcagg	360
ctaagcccta	tgctttttaga	gggctgaagg	aaccaaacc	agtttaatcc	tgttgtttg	420
ctccatgcaa	aactttatgg	aagactcccc	agactaggct	attagcagc	ttccatgaat	480
ggctctcaga	tcatgtgatt	ctacggcata	gacgacagct	gccctattta	cacagaagct	540
gcagaactca	agaggaatgt	ggatttgctc	ttgggagttc	aatgttgag	ggtagaagta	600
gtcctggatg	ataaccatgt	tccnaaatga	ctagtgaaga	gacactgtgg	tttcctgcct	660
ttaacaaant	ggtgtactcc	ttgccctcct	ccaatantgt	ccaaagggct	ggtaaaaacc	720
ctttgattaa	agggctgctg	cctgttgagt	tccccaangg	nacttgggac	anggganccg	780
catttcaaga	ccggaacaaa	ttgggagttt	tgaaaaaagt	ttttaaatng	ggaatggggt	840
acataaaaan	gcttgaaatg	gctaaaacaa	aggngggaa			879

<210> 298

<211> 697

<212> DNA

<213> Homo Sapiens

<400> 298

aaagaatcgg	atatgaaggt	gccaaactgta	agtttgaaag	tatctgaaag	tgtaattgat	60
gtgaaaacaa	ctatggaaaag	tatatctaata	acgtctacgc	agtctctcac	agcagaaaca	120
aaggacatag	cttttgaacc	taaggaacaa	aaacatgaag	acaggcagag	caatacacct	180
tctcctcctg	ttagtacctt	ttcatcaggt	acttctacca	ccagtgatat	tgaagtttta	240
gatcatgaaa	gtgtaataag	tgagagctca	gcgagctcga	gacaagagac	tacagattca	300
aaatcaagtc	ttcacttgat	gcagacatct	tttcagcttc	tctctgcac	tgcttgctcc	360
gaatataatc	gttttagatga	tttccaaaaa	ctcactgaga	gttgctgttc	atctgatgct	420
tttgaaagaa	tagactcatt	tagtgtacag	tcattagata	gccggagtg	aagtgaatc	480
aattcaagat	gatgaattgt	caggcaagg	gatatgcttt	agtgcctatt	ataagttaat	540
tcttcaactc	caaaagtccta	aaacagttga	atctgccgaa	ggaaaatctg	aagaagtaaa	600
tgaaacatta	agttatacca	ctgaggaagc	agaaatggga	agaaaagtgg	gcgaaagtgg	660
caactccccg	gttaacnng	aaaangcctg	gatatcc			697

<210> 299

<211> 510

<212> DNA

<213> Homo Sapiens

<400> 299

aaanaatnaa	ttatgttaan	aactttatta	ttttcnantc	cttttaaang	gntgtnaaat	60
aatacttctc	ccaaatcntt	taaatgttnt	naangccntt	gcnaaatcct	tataaataaa	120
ttttcnccct	tatccaancn	catcnanaaa	acattgaata	tgttcagggt	tcncnggann	180
ggtnccnaaa	ggnncnct	tttatacnga	cttaattgtn	aaagcnggg	gaaataaatt	240
ttccnactna	aatttttttt	aagtttaaat	cnttccnctn	ttaaatttcn	nanagtgtcc	300
gtgtnactcc	tactttttaa	ggaaaaaaat	tanttttaaa	tttaatancc	cccgatttaa	360

taatttttta	ctttaacnnc	taatgttcnt	tttcctgaac	nntaattaan	aatgttgaa	420
attttaaatg	tnaaanantc	caantttccg	tntgttaaca	ttacnctcc	aatgttcnta	480
atatatntnt	taaccctnnc	caattatnga				510

&lt;210&gt; 300

&lt;211&gt; 625

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 300

attagatagc	cggagtgtaa	gtgaaatcaa	ttcagatgat	gaattgtcag	gcaagggata	60
tgcttttagtg	cctattatag	ttaattcttc	aactccaaag	tctaaaacag	ttgaatctgc	120
tgaaggaaaa	tctgaagaag	taaatgaaac	attagtata	cccactgagg	aagcagaaat	180
ggaagaaagt	ggacgaagt	caactcctgt	taactgtgaa	cagcctgata	tcttggtttc	240
ttctacacca	ataaatgaag	gacagactgt	gtagacaag	gtggctganc	agtgtgaacc	300
tgctgaaagt	cagccanaaa	cactttctga	caaggaanat	gtttgcaata	cagttgaatt	360
tctgaatgaa	aaagcnggaa	aaaagggang	ctcagttatt	atctcttagt	aaggaaaaag	420
cacttctag	aagaagcttt	ttgatacctg	aananatgaa	atgttcacag	tngaaaggaa	480
naanngcagt	ancatttccn	tccttgaaan	gattnngttt	actcaaagga	attngnnnaa	540
nccngtanta	gaaaagtttc	aaacctaagn	ccggnaaaag	aggaagagat	gcctggccta	600
aaaaaaggga	aatccacnga	ccatt				625

&lt;210&gt; 301

&lt;211&gt; 792

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 301

aaaaantaaa	ttatnttaaa	aactttatta	tttncnatnc	attttatagg	gtantaaaaat	60
aatactnctn	caaaatcatt	taaatnttat	tgatgccatt	gcaaaatcat	tataaataaa	120
tttntctccat	tatccaatca	catctaaata	acattgaata	tntacagggt	nctctggata	180
ggtacaaaaa	ggtaccacnt	tttatacaaa	cttaattgtg	aaanctgggt	gaaataaaat	240
tncaaatcaa	aatttttttt	aanttttaaa	catncaactct	ttaaatttca	aacagtgtca	300
gtgtgacnct	tacttttttaa	ggaaaaaaat	tagttttaa	tttaatancc	acanatttaa	360
taatttttta	ctttaacact	taatgtacat	tttcatganc	agtaattaaa	atatnttgaa	420
attttaaatn	tgaaaaaatt	caaagtttca	gtatnttaac	attacncttc	aatgttcttt	480
aatatatata	taaacactta	caaattataa	atacaactag	ttgtntntct	acaatacata	540
tntgaacacc	attcttcttc	tctagccatn	tttatntgan	gataaagtaa	taaatctctg	600
tgctattcaa	gggaaaaaaa	atgaatgctt	taaaaaataa	atctttaaaa	aataattcca	660
aaaataaagt	tcaaatattg	cacaaaaata	atttaactgt	aaatattact	ncntagtgtg	720
aacaatttta	aaaaaatttt	acactctaca	ntaaatccnc	ttctnattct	ttaaaaaaat	780
tatgggaaat	cc					792

&lt;210&gt; 302

&lt;211&gt; 738

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 302

aaagagtaaa	ttatgttaag	aactttatta	ttttcgattc	attttatagg	gtagtaaaaat	60
aatacttctt	caaaatcatt	taaatgttat	tgatgccatt	gcaaaatcat	tataaataaa	120
ttttctccat	tatccaatca	catctagata	acattgaata	tgtagagggt	tcnctggata	180
ggtacaaaaa	ggtaccacat	tttatacaga	cttaattgtg	aaagctgggt	gaaataaaat	240
ttcagatcaa	aatttttttt	aagttttaa	cattcactct	ttaaatttca	gacagtgtca	300
gtgtgactct	tacttttttaa	ggaaaaaaat	tagttttaa	tttaatagcc	acagatttaa	360

taatTTTTTT	ctttaacact	taatgtacat	tttcatgagc	agtaattaag	atatgttgaa	420
atTTTaaatg	tgaaagattt	caaaggTTTc	agtatgttaa	cattactctt	caaagtTtct	480
taatatatat	ataaacactt	acaaattata	gatacaacta	gttgatatatc	tacaatacat	540
atatgaacac	cattcttctt	ccccnagcca	tatttatatg	agggataaag	taataaatct	600
ctgggtgctat	tcaaggnaaa	aaaatgggaat	gccttaaaaa	aataaaatcc	ttaaagaata	660
ggttcaaaaa	ataaagttca	aaatantngc	ccaaaaataa	attaacnngg	taatattaac	720
tacataaggg	taaaacaa					738

&lt;210&gt; 303

&lt;211&gt; 635

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 303

gaacggccga	gggtaacatc	ccgggctcgc	gggaggctgt	cggggtaatg	gccacacgct	60
gacagaacca	gccgagtgga	aaaggggagc	gaagccgttc	ctctgcaccc	ttccccaggc	120
ctgaggcctt	cccgttggt	gctgccgcg	ccactgccgg	ctgaggagg	gcgatgagtt	180
ggttcaacgc	ctcccagctc	tccagcttcg	ctaagcaggc	cctgtcccag	gcccagaagt	240
ctattgacag	ggttctggac	atccaggaag	aggagccgag	catctgggcc	gagaccattc	300
cgtatggaga	gccgggaata	agttcccctg	tcagtggagg	atgggatact	tcaacctggg	360
ggttgaaatc	aaacactgaa	cctcagagtc	caccaatagc	ctctcctaaa	gcaatcacaa	420
agccagttcn	gaggactgtg	gtcgatgaat	ctgaaaattt	cttcagtgcc	tttctctcgc	480
caactgatgt	ccagaccatt	cagaagagtc	cagtgggtatc	aaaacctcca	ncataatcac	540
aacnaccang	nagaangan	tgaaaancan	cttcatgaa	tccttgca	ttggncaant	600
caagaaactt	cctgaaacaa	ctgaaatcac	aaagt			635

&lt;210&gt; 304

&lt;211&gt; 847

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 304

gagacggagt	ctttctctgt	cacccatgct	ggagtgcagt	ggcacaatct	tggctcattg	60
taacctccac	ctcccaggtt	caagcaatgc	tcctgcctca	gcctcccag	tagctaggat	120
tacaggcgca	caccaccacg	ccaggcta	ttttgtat	ttagtagaga	tggggtttca	180
ccaaactgct	ggccatgctg	gtcttgaact	cctgacatca	ggtgatatgc	ccgccttggc	240
ctcccaaagt	gctgggatta	caggcatgag	ccacagcacc	tggccgtaaa	tgagagtttt	300
tatgtgcaag	taaaggcagt	taaataactt	tcagtaataa	aatgcatcac	aatatttcac	360
aggtttaaaa	cacaacctgg	ttacctttt	gaataaaata	acatttgga	gaaggcatag	420
ctacttttaa	aagctattct	atgctttcct	tgtgtttgaa	atttcaagaa	aaaataaaat	480
gataaatcac	aaaatttaaa	atgccaaatt	caagttaatt	cctataattc	ttccattttg	540
ttatgaatat	tctgtaatat	caaacattca	tttttaattg	gctaaaaata	tgggtttaca	600
aaatatgaac	aggtaatttt	taaaagagta	aattatgtta	aagaacttta	ataantttcg	660
attcatttta	tagggtaanta	aaataatact	tcttcaaaat	caattaaatg	ttattgaatg	720
ccatttgcaa	aatcattata	aataaatttt	cncaattatc	caatcacaa	tctagataac	780
attgaataag	tncaagggtt	ccccgggata	ngttccaaaa	nggtnccaca	attttatnca	840
gacctaa						847

&lt;210&gt; 305

&lt;211&gt; 767

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 305

cccccttcgt	ctcagctgtg	cgggaaacggc	cgagggtaac	atccccgggct	cgcgggaggc	60
------------	------------	-------------	------------	-------------	------------	----

tgtcggggta	atggccacac	gctgacagaa	ccagccgagt	ggaaaagggg	agcgaagccg	120
ttcctctgca	cccttcccca	ggcctgaggg	cttcccgtt	ggtgctgccg	ccgccactgc	180
cggctgagga	ggggcgatga	gttggttcaa	cgctcccag	ctctccagct	tcgctaagca	240
ggccctgtcc	caggcccaga	agtctattga	cagggttctg	gacatccagg	aagaggagcc	300
gagcatctgg	gccgagacca	ttccgtatgg	agagccggga	ataagttccc	ctgtcagtgg	360
aggatgggat	acttcaacct	gggggttgaa	atcaaacact	gaacctcaga	gtccaccaat	420
agcctctcct	aaagcaatca	caaagccagt	tcggaggact	gtggtcgatg	aatctgaaaa	480
tttcttcagt	gcctttctct	cgccaactga	tgtccagacc	attcagaaga	gtccagtggg	540
atcaaaacct	ccaacaaaat	cacaacgacc	aagaaagaag	aagtgaaaag	caacttacat	600
gaatcccttg	cacattggcc	aatcaagaac	tcctgaaaca	actgaatcac	aagtaaaaag	660
actccctcct	tgtgtgtttc	aaggggaaaa	ctctgggcaa	caaggtaact	catcacctaa	720
aactgaaagg	naaacaacga	agaaaactgt	ttaatnaaag	aatccgg		767

&lt;210&gt; 306

&lt;211&gt; 1659

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 306

cccccttcgt	ctcagctgtg	cgggaaacggc	cgagggtaac	atcccgggct	cgcgggaggc	60
tgtcggggta	atggccacac	gctgacagaa	ccagccgagt	ggaaaagggg	agcgaagccg	120
ttcctctgca	cccttcccca	ggcctgaggg	cttcccgtt	ggtgctgccg	ccgccactgc	180
cggctgagga	ggggcgatga	gttggttcaa	cgctcccag	ctctccagct	tcgctaagca	240
ggccctgtcc	caggcccaga	agtctattga	cagggttctg	gacatccagg	aagaggagcc	300
gagcatctgg	gccgagacca	ttccgtatgg	agagccggga	ataagttccc	ctgtcagtgg	360
aggatgggat	acttcaacct	gggggttgaa	atcaaacact	gaacctcaga	gtccaccaat	420
agcctctcct	aaagcaatca	caaagccagt	tcggaggact	gtggtcgatg	aatctgaaaa	480
tttcttcagt	gcctttctct	cgccaactga	tgtccagacc	attcagaaga	gtccagtggg	540
atcaaaacct	ccaacaaaat	cacaacgacc	aagaaagaag	aagtgaaaag	caacttacat	600
gaatcccttg	cacattggcc	aatcaagaac	tcctgaaaca	actgaatcac	aagtaaaaag	660
actccctcct	tgtgtgtttc	aaggggaaaa	ctctgggcaa	caaggtaact	catcacctaa	720
aactgaaagg	naaacaacga	agaaaactgt	ttaataaaga	atcgatatg	aaggtgccaa	780
ctgtaagttt	gaaagtatct	gaaagtgtaa	ttgatgtgaa	aacaactatg	gaaagtatat	840
ctaatacgtc	tacgcagtct	ctcacagcag	aaacaaagga	catagctttg	gaacctaaagg	900
aacaaaaaca	tgaagacagg	cagagcaata	caccttctcc	tcctgttagt	accttttcat	960
caggtaacttc	taccaccagt	gatattgaag	ttttagatca	tgaaagtgtg	ataagtgaga	1020
gctcagcgag	ctcgagacaa	gagactacag	attcaaaatc	aagtcttcac	ttgatgcaga	1080
catcttttca	gcttctctct	gcattctgctt	gtcttgaata	taatcgttta	gatgatattcc	1140
aaaaactcac	tgagagttgc	tgttcatctg	atgcttttga	aagaatagac	tcatttagtg	1200
tacagtcatt	agatagccgg	agtgttaagt	aatcaattc	agatgatgaa	ttgtcaggca	1260
agggatatgc	tttagtgctt	attatagtta	attcttcaac	tccaaagtct	aaaacagttg	1320
aatctgctga	aggaaaatct	gaagaagtaa	atgaaacatt	agttataccc	actgaggaag	1380
cagaaatgga	agaaagtgga	cgaagtgcaa	ctcctgttaa	ctgtgaacag	cctgatattct	1440
tggtttcttc	tacaccaata	aatgaaggac	agactgtgtt	agacaagggtg	gctgancagt	1500
gtgaacctgc	tgaaagtcag	ccanaancac	tttctgacaa	ggaanatgtt	tgcaataacag	1560
ttgaatttct	gaatgaaaaa	gcnggaaaaa	agggangctc	agttattatc	tcttagtaag	1620
gaaaaagcac	ttctaggaag	aagctttttg	atacctgaa			1659

&lt;210&gt; 307

&lt;211&gt; 831

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 307

ctaagcattc	catattggaa	gaagagattt	ctacacatga	aaaaaatgcc	tttgttttagt	60
------------	------------	------------	------------	------------	-------------	----

aaatcacaca	aaaatccagc	agaaattgtg	aaaatcctga	aagacaattt	ggccattttg	120
gaaaagcaag	acaaaaagac	agacaaggct	tcagaagaag	tgtctaaatc	actgcaagca	180
atgaaagaaa	ttctgtgtgg	tacaaacgag	aaagaacccc	caacagaagc	agtggctcag	240
ctagcacaa	aactctacag	cagtggcctg	ctagtgcac	tgatagctga	cctgcagctg	300
atagactttg	agggaaaaaa	agatgtgacc	cagatattta	acaacatcct	gagaagacag	360
ataggcactc	ggagtccctac	tgtggagtat	attagtgtct	atcctcatat	cctgtttatg	420
ctcctcaaag	gatatgaagc	cccacagatt	gccttacgtt	gtgggattat	gctgagagaa	480
tgtattcgac	atgaaccact	tgccaaaatc	atcctctttt	ctaatacaat	cagagatttc	540
tttaagtacg	tggagtgtgc	aacatttgat	attgcttcag	atgcctttgc	tactttcaag	600
ggattttacta	accagacata	aagtgttgg	agcaagactt	cttagaacia	aattacgaca	660
ctanttttga	agactatgag	aaattgcttc	agtctgagaa	attatgttac	caagagacag	720
tccttaaagc	ctgctaagg	aactgattct	ggaccgtcan	aactttgcca	tcaangcaaa	780
agtttatcaa	caagccnggg	gaaaccggaa	acncaaggag	gaacctcctt	c	831

&lt;210&gt; 308

&lt;211&gt; 833

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 308

ccattcaaat	gtttatactc	catctaccca	gaacaattac	agcagaaaaa	ataggcacct	60
ccaaagtctt	cccaagaatg	atgactttct	gaaatgacac	actgtacaaa	ctggacaaat	120
gagacgactg	actgtgacag	gggccgggga	gctcttcaag	gggccgtttt	cttcaagtct	180
cggatctgtt	taatcaagta	gttcttctcg	tcagcgaaact	gctcatcatc	cgctccttct	240
ttttggaagc	tgctcagaaa	ctcaatgagt	ttgggctgat	tttttaacag	gatctccaca	300
ataggctgtg	ttttgtgagg	actggccaca	aacaccttaa	aaacatgaaa	ggcttcaaac	360
tggatgttgg	gacttttatc	ccgaaggagg	ttcatcatga	gtttcagggt	ctccggcttg	420
ctgatatact	ttgtcatgat	ggcaaagttg	tgacggtcca	ggatcagctc	ccctagcagc	480
tttaagact	gtctcttagt	aacataattc	tcagactgaa	gcaatttctc	atagtcttca	540
aaaatagtgt	cgtaattttg	ttctaagaag	tctgctacca	acactttaag	gtcnggttag	600
taaatccttg	aaagtagcaa	aggcatctga	agcaatatca	aatgttgaca	actccacgtt	660
acttaagaaa	atctctgaat	tgattagaaa	aagaggatga	ntttgggcaa	ntgggtcaag	720
tcgaatanat	tcctctcaag	cataaaccca	caaacgttaa	ggnaaaccgg	tgggggcttc	780
aaaanccntt	gagggagcat	aaancangga	tattagggat	nagcacccaa	ata	833

&lt;210&gt; 309

&lt;211&gt; 1320

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 309

gcatcaccac	catccacgag	gatgagggtg	ccaagaccca	gaaggcagag	ggaggtggcc	60
gcctgcaggc	tctgcgttcc	ctgtctggca	ccccaaagtc	catgacctcc	ctatccccac	120
gttctctctc	ctcctcccc	tccccacct	gttccctctc	catggctgac	ccccctctgg	180
ctgggtgatg	cttctcaaac	tccttggagt	ttgaagaccc	ggagctgagt	gccactcttt	240
gtgaactgag	ccttggtaac	agcggcccag	aaagataccg	gctggaggaa	ccaggaacgg	300
agggcaagca	gctgggcca	gctgtgaata	cggcccagg	gtgtggcctg	aaagtggcct	360
gtgtctcagc	cgccgtatcg	gacgagtcag	tggctggaga	cagtgggtgtg	tacgaggctt	420
ccgtgcagag	actgggtgct	tcagaagctg	ctgcatttga	cagtgcagaa	tcggaagcag	480
tgggtgacg	ccgaattcag	attgcccctga	agtatgatga	gaagaataag	caatttgcaa	540
tattaatcat	cagctgagt	aacctttctg	ctctgttgca	gcaacaagac	cagaaagtga	600
atatccgcgt	ggctgtcctt	ccttgcctcg	aaagcacaac	ctgcctgttc	cggaccgggc	660
ctctggacgc	ctcaagacac	tctagtgttc	aatgagggtg	tctgggtatc	catgtcctat	720
ccaagccctt	caccaagaag	accttaagag	tcgatgtctg	taccaccgac	aggagccatc	780
tgggaaaagt	gcctgggagg	cgcccaaatn	agcctggcgg	aggtctgccg	gtctggggga	840



aaagtcgact	cgtttggtac	aacttttctca	gntacaaaat	acttgaagaa	acagagcagg	900
gagctcaagc	cagtgggagt	catggccctt	gcttcagggc	ntgccagcac	ggacgctgtg	960
tcttgctctg	ttggaacaga	cagcagtggg	gttggaaga	aggcaggagg	gcaggagcag	1020
cacacagaca	ctggaagaca	gctggtgagt	gagcccgccc	ttgggccccca	ggagctgccc	1080
tgcttgacc	taggcccagc	aatgagatcc	cccaatgcc	gtgcaactaa	gagaagggtt	1140
ccactgggaa	ggctgagaac	ccctctctc	atgggttctc	tacaggcaaa	aaggcaatgt	1200
aacctagtac	gatggttccc	agaattcctt	tcgaatttgc	catttcgttt	cccatgaatc	1260
acctatgcta	gttcacacct	aatgttattc	tttatcttga	tatagtgaca	tttattttgc	1320

&lt;210&gt; 310

&lt;211&gt; 1030

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 310

aacatttctg	tgatcaacat	tgcttactgc	gtttctactg	tcaacaaaat	gagcccaaca	60
tgacaactca	gaaaggacct	gaaaacttac	attatgatca	gggttgctag	acatctcgaa	120
ccaaaatgac	agggttcagca	ccacccctt	ctccaacacc	taacaaagag	atgaagaaca	180
aagcagttct	ttgcaaacct	ttaacaatga	caaaagctac	ttactgtaaa	cctcacatgc	240
agaccaaate	ttgtcagaca	gatgatactt	ggaggacaga	atatgttcca	gtgcctatcc	300
ctgtgcctgt	gtatatccca	gttcctatgc	acatgtacag	tcagaatatt	cctgttccta	360
ctacagttcc	tggtcctgtg	ccagttcctg	ttttctgcc	tgctccattg	gacagcagtg	420
agaagattcc	tcgagcaatt	gaggagctaa	aaagcaagg	ttcttcagat	gctcttgata	480
cagagttgct	tacaatgacg	gatatgatga	gtgaagacga	ggggaaaaaca	gagacaacca	540
acatcaacag	tgtaattatt	gaaacagata	taattgggtc	agaccttttg	aagaactctg	600
accagagac	acagtcacgc	atgcctgatg	taccatata	accaagattt	ggatatcgaa	660
atagattttc	ccagagctgc	tgaggagctt	gatatggaaa	atgaattttt	attaccacct	720
gtttttggcg	aagaatatga	ggaacagccc	aagacctcga	tctaaaaaaa	aaggagacca	780
agagaaangc	tgtatcaagg	ataccaagtc	tcagatgat	aagtctgaca	atttcagaat	840
gcagntttcc	tttcaaatta	tacgtatggg	cgtaaatgca	tgggnaacac	cgggtcaaaa	900
actaagnnac	ttggatgaaa	gatntccgg	gnaattagaa	tgagttaaaa	tccttccaaa	960
tccantnaag	tttaaaagag	ggtntaatcc	cctcaaaacc	anagctggng	ccttaacaag	1020
ggggttaacc						1030

&lt;210&gt; 311

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 311

gtttctgttt	tcagaagaat	tgggaaaact	tctgtgaaag	aagaatgcag	aaacaaagaa	60
atatgaagtc	ttgggagtat	actgattaaa	aagcacacat	tgggagtgat	agtaagaaga	120
gctaaaaata	aaagcacaga	aggaaaaaat	aattgatttg	tacataagct	aaattataat	180
tcctttaaaa	ttgtttataa	caagatggaa	tacagaatga	cgattagatt	tataacgtgt	240
gtttatatga	atatgttggt	aacagtgaga	tttctgatat	ggtataacaa	agtatatgat	300
tggaggacct	gcaaaatgta	tactcgggtt	gtttttcttt	ttaaaaatat	tgtnaaacag	360
gcaagtgagg	cttaacagca	ttatggttca	ttacnggggt	tgggntatat	acctttttca	420
gcttctgtna	tgagcaagtt	gtgttttcaa	tccccacttt	caatgtctat	gggaagggcg	480
cnttttgctn	tgttttgttt	tgtctttaaa	ncnttttnaa	acnggggaca	canatggang	540
cgggcc						546

&lt;210&gt; 312

&lt;211&gt; 518

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 312

aaaattatta	ntntaaaagg	ggaatataggt	nggattnccn	tnttnagggc	aataattntg	60
gggaggaatg	gggtggggct	naccctgna	acccatnata	aacctattct	nctnagggtg	120
ctgggaaana	attggggctct	ggaataaanc	tncaaattggg	tcnccngctt	cactaaaacc	180
ttggcaacta	aggctcattt	ttccaaaggg	gttnctnang	tcnnctccct	ntnaaatcnt	240
tttattatnc	caggggtggct	gttgctaang	cttnggtggg	aaancangaa	nttntctgctn	300
ctnctgctgc	tgttgctgct	gggcantnca	agggaaaacc	cccccgaaa	actgggataa	360
ngtgacctgn	ttgcnacnt	ctnngggcct	attncctac	ctgncctgna	aatncttccc	420
nctctgcccc	ctttactnnt	gccaanctt	tccccccgg	ttaggataaa	aattccccctn	480
aacctccnac	ctttgggttan	cggggggtccc	ctncccc			518

&lt;210&gt; 313

&lt;211&gt; 660

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 313

gccaagctgt	gaatacggcc	caggggtgtg	gcctgaaagt	ggcctgtgtc	tcagccgccg	60
tatcggacga	gtcagtggct	ggagacagtg	gtgtgtacga	ggcttccgtg	cagagactgg	120
gtgcttcaga	agctgctgca	tttgacagtg	acgaatcgga	agcagtgggt	gcgacccgaa	180
ttcagattgc	cctgaagtat	gatgagaaga	ataagcaatt	tgcaatatta	atcatccagc	240
tgagtaacct	ttctgctctg	ttgcagcaac	aagaccagaa	agtgaatata	cgcgtggctg	300
tccttccttg	ctctgaaagc	acaacctgcc	tgttccggac	ccggcctctg	gacgcctcaa	360
gacactctag	tgttcaatga	ggtgttctgg	gtatccatgt	cctatccaag	cccttcacca	420
agaagacctt	aagagtcgat	gtctgtacca	ccgacaggag	ccatctggga	aaagtgcctg	480
ggaggcgccc	aaatnagcct	ggcgagggtc	tgccggctctg	ggggaaaagt	cgactcgctn	540
gtacaacctt	ctcagctaca	aatacttgaa	gaaacaagac	aangggactc	aagccantgg	600
gagtcatggg	ccctggcctc	angggctgcc	aacaacgggc	cccgtgttct	ggccccgttt	660

&lt;210&gt; 314

&lt;211&gt; 516

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 314

gaaaggccac	tttattgatg	gagataaaac	tgaatggagt	tccccacagc	cctccccctca	60
ctcatgttag	tggtctnact	gggcatctga	gaccagcgtg	gcctgtcacc	cacatanact	120
aggctgctta	gcccacccag	cctatcacac	tgcccgtctc	acgttgggca	gccacataaa	180
aacacgtcac	agctcaanaa	natccgtgga	tgcacctctg	aatccccccc	aatgggtttct	240
gtgcattttt	ttaatatgtt	acaaaatatg	ttaactagga	aaaattagct	gtactgtgac	300
aagtgcggga	cgtcctatta	ggattaccgt	ccccaggca	ttacttctta	ttgcagtaag	360
acctctaaaa	gggtggagctg	tncaaaccac	aaaaaatcta	aacgatttta	agaanagcag	420
caactcaata	ctgctttagt	tcattttaat	tttctttccc	aaaaatacac	tcctaaatat	480
acaaactata	caatcttatt	attttaatgc	tggttt			516

&lt;210&gt; 315

&lt;211&gt; 677

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 315

tcagaatggc	agatttcagga	gagagtttgt	gccagaatag	cattgaagaa	cttgatgggtg	60
tccttacatc	catattcaaa	catgagatac	catattatga	gttccagtct	cttcaaaactg	120
aaatttgctc	tcaaaacaaa	tatactcatt	tcaaagaact	tccaactctt	ctccactgtg	180
cagcaaaatt	tggtttaaag	aacctggcta	ttcatttgct	tcaatgttca	ggagcaacct	240

gggcatctaa	gatgaaaaat	atggagggtt	cagacccac	acatattgct	gaaaggcatg	300
gtcacaaaga	actcaagaaa	atcttcgaag	acttttcaat	ccaagaaatt	gacataaata	360
atgagcaaga	aaatgattat	gaagaggata	ttgcctcatt	ttccacatat	attccttcca	420
cacagaaccc	agcatttcat	catgaaagca	ggaagacata	cgggcaagag	tgcaaatgga	480
gctgaggcaa	atgaaatgga	aggggaaggn	aaacagaatg	ggntcaggca	tggagaccaa	540
acacagccca	ctaagagggtt	ggcagtgaga	gttctgaaag	accagtatga	tgactttgtan	600
gtgttcaatc	cctggngct	gattcaagaa	aaataattcc	acaagggtgc	tattcntngt	660
ttttacaaga	cntcctt					677

&lt;210&gt; 316

&lt;211&gt; 843

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 316

agcttttaaac	attcaattta	tttgtggcat	ttgtacatga	aaattatatg	acgataacat	60
tgctttctat	tctaaagctag	ttaaattgttt	ctaagaaata	atagattgat	aaaattgcaa	120
gtcttaatac	aaaggtaggt	tatgaaaatg	tatattaatt	tgagatatag	aaaagttttc	180
aaataataat	gttttcaggg	ttatatgcaa	atagacacta	aataagacaa	ggtttctgca	240
aacatgatgt	aacaataatg	actggaactc	tgaatgtgag	aaattcagaa	aatgaaccag	300
ctacttaaaa	agcaaaaatg	tgctaagtaa	atltgtatlt	tcattggttat	tctaaggaga	360
ggaggaataa	tctgttgagg	ttagtgccct	caagcagacc	ccataacttt	gctacaccgc	420
atttaacttc	tctgtgctgt	tttcttttaa	ttttcaaaaat	ggaaattagc	tgtttcattg	480
gtgaagtgca	ttgtaaaatg	agagaatttt	caaataatgc	aattactcta	tggtattctg	540
ttttaatagt	aatataacca	tatgaagcag	gtataatgag	aataaatttt	gccaataaca	600
aattctgaaa	tctgaanttt	gtttctgctg	tcatagtatg	aattcgcttt	aaagananca	660
ggcaatccaa	attcaacttg	ctcacctgaa	aacaaaatgt	ccgtanatcg	tgagttcata	720
taataacctc	cttaatgatc	ttcctgcaca	naaaccaaat	tcttttcaac	ttgggggtcaa	780
caagaacctc	ttgctgaatt	ttcatataaa	actatttctt	gttggcagtt	tcctaccccc	840
gga						843

&lt;210&gt; 317

&lt;211&gt; 835

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 317

acaagacacg	cctgcgtagt	ggtagtgcct	tcttcagtc	ccagtctagt	actgaggacc	60
cgaaggatga	gcctgcggag	ctaaaaccag	attctgagga	cttatcctcc	cagtcctcag	120
cttcaaaggc	atctcaggag	gatgccaatg	aaatcaagtc	taaaccggat	gaagaagaac	180
gagaacgaga	aaggagggag	aaggagaggg	aacgagaaag	agaacgggag	aaggagaagg	240
agagagaaac	agagaagcag	aagctaaaag	agtcagaaaa	agagagagat	tctgctaagg	300
ataaagagaa	aggcaaacat	gatgatggac	ggaaaaagga	agcagaaatt	atcaaacaat	360
tgaagattga	actcaagaag	gcacaggaga	gccaaaagga	gatgaaacta	ttgctggata	420
tgtaccgttc	tgccccaaag	gaacagagag	acaaagtcca	gctgatggca	gctgagaaga	480
agtctaaggc	agagttagga	gatctaaggc	aaagactcaa	ggatctggaa	gataaagaga	540
agaaagagaa	caaagaaaat	ggctgatgaa	ggatgccttg	aggaagatcc	gggcagtggga	600
gggacaagat	agaataccta	cagaagaagc	taagccatgg	gcaagcagga	agaagaagca	660
ctcctctctg	aaatgggatg	tcacaaggcc	aagcctttga	agacatgcag	gagcaaaaat	720
atccgntttg	attgcagcaa	nttgccggga	anaanggatg	atgccaaatt	ttcaaagccc	780
aatgtcaaaa	gccgttttca	agttccaaat	ccagnttcat	naagnttgcc	ttaaa	835

&lt;210&gt; 318

&lt;211&gt; 582

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 318

caaaactgaat	cctgcttttaa	ttcaagcttg	nggagaacaa	agtcctacag	aaacattcca	60
nanaatttttc	nggaaaagag	ggatcacaaac	aacctgttaa	aaaggagact	ganagtaatt	120
canagctcac	caagttcnncn	ccgtatcaaa	tttccanaat	acccacaaga	tttcttcacc	180
anctcantcc	tgactcaacc	tcttcaatct	ttanttcatt	agaagacaaa	gggtcanatt	240
atttaaaatt	antcnantcc	caagaaattt	aaagacttga	agtagtagag	cattcaaaac	300
ttaaataact	ttaacaagaa	agccanctga	tcttaacaag	ttacnncngcn	antaaatggg	360
aaatagactg	aatcanccta	nacataattt	cattagggnt	gcaaaccacc	cangggaaag	420
tagcacaaatt	ataccanttt	gtaatccaca	ttcacaaagaa	gtttgcnaca	caaatagaaga	480
aaactttgng	cccatagaca	acttattttt	taaaatatca	ctccccaaaa	gtagccatgt	540
ttccactttt	ggtccccctt	ccanatcaaa	aataccaact	tg		582

&lt;210&gt; 319

&lt;211&gt; 827

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 319

gaagccattc	gatgttcatc	agattggcca	tttcagccat	accttgtgtt	tgatgttggg	60
gatggttcag	aaagacggga	taatgactca	tatataaatg	ttcaagaaat	aaaactgggtg	120
atggaaataa	ttaagcttat	ttaaagacaaa	agaaaggatg	ttagtttttcg	aaacattggc	180
ataataactc	attacaaggc	ccagaagacg	atgattcaga	aggatttgga	caaagagttc	240
gatagaaaag	gaccagcaga	agtagacact	gtggatgcat	tccagggctcg	gcagaaggat	300
tgtgttattg	ttacgtgtgt	cagagcaaag	agcatccaag	gttcaatttg	attcctggca	360
agtttgcaga	gattgaatgt	caccatcaca	cgagccaagt	acagcctctt	catcctcgga	420
catttgagga	ccctgatgga	aaaccagcat	tggatcagc	tgattcagga	tgctcagaag	480
cgtggtgcca	ttattaagac	ctgtgacaaa	aactatagac	atgatgcagt	gaagattctg	540
aaactcaagc	ctgtgctgca	gagaagtctc	actcancctc	ctaccatagc	cccaaagggg	600
tccaaacccc	aagggtggnt	tgcccaagca	ncaagctaga	cagttggatt	ttgccaaaga	660
caatcctggg	tgccggcttc	tccaatacca	aaacaaccct	cgggactccc	aagggaataa	720
tacnccaaac	ggtttacctt	caaagggaac	ctgaaaagac	ccnccctggg	caatgaccaa	780
cnttcanggg	nccacgaan	tggctgaaaa	agggatgggc	aatttag		827

&lt;210&gt; 320

&lt;211&gt; 598

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 320

aaatttttaa	aggattttgt	tatttgctat	acaaatatac	atttcaactt	ttacaacatt	60
cactccagtc	tgacctcctt	gtctatagaa	gactaagaga	tcaacatttc	cagtctctga	120
cttcaaggac	attattacgg	atacacaatg	ccctctgaaa	gcttttgcaa	atgacagaaa	180
atactgaaga	tgaccagagg	ctcaggtgtt	aaggatgcat	tttccatgtt	ttccaacagc	240
acacaaactc	cttacaaaaa	acaagcttat	ctagatgggc	ccacgagctg	gtcatcttca	300
gtttacaata	tgtctgtggt	gctggcccat	gtcactgggc	tttcctataa	aagctttctt	360
ttcttgggaa	ctgctgtcct	cctgctccaa	gtgtcctctt	gtccaccta	gagttcctcc	420
tggtgtgatg	ggtctcgga	ccacacttct	cctgctcccc	ttcactgaaa	gccctggcct	480
ctctcctgtg	acagagctcc	tcttccgggt	catcacattt	gctctgacac	gtgggnagcc	540
tcggggaact	gggcancctg	gaggntccgt	ttttttttgg	gaaggtttgt	tggctgccc	598

&lt;210&gt; 321

&lt;211&gt; 808

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 321

gcataccac	catccacgag	gatgaggtgg	ccaagaccca	gaaggcagag	ggaggtggcc	60
gcctgcaggc	tctgcgttcc	ctgtctggca	ccccaaagtc	catgacctcc	ctatccccac	120
gttcctctct	ctcctcccc	tccccaccct	gttcccctct	catggctgac	cccctcctgg	180
ctggtgatgc	cttctcaac	tccttggagt	ttgaagaccc	ggagctgagt	gccactcttt	240
gtgaactgag	ccttggtaac	agcgcccagg	aaagataaccg	gctggaggaa	ccaggaaacgg	300
agggcaagca	gctgggcca	gctgtgaata	cggcccagg	gtgtggcctg	aaagtggcct	360
gtgtctcagc	cgccgtatcg	gacgagtcag	tggctggaga	cagtgggtgtg	tacgaggcct	420
ccgtgcagag	actgggtgct	tcagaagctg	ctgcatttga	cagtgcagaa	tcggaagcag	480
tgggtgcgac	ccgaattcag	attgccttga	agtatgatga	gaagaataag	caatttgcaa	540
tattaatcat	ccagctgagt	aacctttctg	ctctgttgca	ncaacaaaga	ccagaaagtg	600
aatatccgcg	tggctgtcct	tccttgcctt	gaaaagcaca	aactgcctgt	tccgggaccc	660
gggctctgga	cgctcaaac	actccaagtg	ttcaatgaag	gtgttctggg	tatccatggt	720
ccctatacaa	accnttaac	aagaaagacc	tttaanaag	tccaatgtcc	ngtnaccaac	780
cggacaaggg	agccaatctt	gggaaaaa				808

&lt;210&gt; 322

&lt;211&gt; 629

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 322

agcaaaataa	atgtcactat	atcaagataa	agaataacat	taggtgtgaa	ctagcatagg	60
tgattcatgg	gaaacgaaat	ggcaaattcg	aaaggaattc	tgggaaccat	cgtactagg	120
tacattgcct	ttttgcctgt	agagaaccca	tgaggagagg	ggttctcagc	cttcccagtg	180
gaacccttct	cttagttgca	ctggcatttg	gggtctcat	tgctgggcct	aggtccaggc	240
agggcagctc	ctggggccca	agggcgggct	cactcaccag	ctgtcttcca	gtgtctgtgt	300
gctgtcctg	ccctcctgcc	tcttctccaa	ctccactgct	gtctgttcca	acagagcaag	360
acacagcgtc	cgtgctggca	ngccctgaag	caagggccat	gactcccat	ggcttgagct	420
ccctgctctg	tttcttcaag	tattttgtan	ctgagaaagt	tgtaccaanc	gaatcnacct	480
ctccccaaaga	ccgggaagac	ctcccgccaa	ggctgatattg	gggcgcctcc	caagcactct	540
tccaaaatgg	ctcccgctcg	ttgggacana	catccnactt	tttaangcct	tccggggnaa	600
agggctgggn	taaggacatt	gggtncctc				629

&lt;210&gt; 323

&lt;211&gt; 798

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 323

aacatttctg	tgatcaacat	tgttactgc	gtttctactg	tcaacaaaat	gagcccaaca	60
tgacaactca	gaaaggacct	gaaaacttac	attatgatca	gggttgtcag	acatctcgaa	120
ccaaaatgac	aggttcagca	ccacccctt	ctccaacacc	taacaaagag	atgaagaaca	180
aagcagttct	ttgcaaacct	ttaacaatga	caaaagctac	ttactgtaaa	cctcacatgc	240
agaccaaate	ttgtcagaca	gatgatactt	ggaggacaga	atatgttcca	gtgcctatcc	300
ctgtgcctgt	gtatatccca	gttctatgc	acatgtacag	tcagaatatt	cctgttcccta	360
ctacagttcc	tgttctgtg	ccagttcctg	ttttctgcc	tgctccattg	gacagcagtg	420
agaagattcc	tgacgaatt	gaggagctaa	aaagcaaggt	ttcttcagat	gctcttgata	480
cagagttgct	tacaatgacg	gatatgatga	gtgaagacga	ggggaaaaca	gagacaacca	540
acatcaacag	tgtaattatt	gaaacagata	taattgggttc	agaccttttg	aagaactctg	600
accagagac	acagtccagc	atgcctgatg	taccatata	accagatttg	gatatcgaa	660
tagattttcc	cagagctgct	gaaggagcct	tgatatggga	aatgaattt	ttattaccaa	720
ccngtttttg	ggcgaaagaa	tatgaaggaa	caagcccaaa	cctcgattct	aaaaaaaaag	780

ggagccaagg agaaaaagg

798

&lt;210&gt; 324

&lt;211&gt; 754

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 324

aaaaggacac	taaggtttta	ataaggggaa	caaaaaattg	ttttcaccag	catagattca	60
cattacagta	caccaatatt	gacagcattc	tcttgtctat	ttttggtaca	gaagatggta	120
tctctctaca	taaccttgta	aggcttcagt	aactaaaatg	taaaaccaaa	caaaacaaaa	180
ccccaaaaa	aaacaaaaac	cccagcctat	tagtttacag	tttattttta	aaattccgaa	240
agacactgca	agttctaaac	ttttagtagt	gctacccata	cacaaccatc	tggttaagaa	300
cccagtaaaa	gagccccctt	ccaaggaagc	tttgcaacag	tagagttgtg	caatatggat	360
gtttcttact	acaagaaaaa	aattatacat	ggcacattct	cattcatatt	ctgtaatgta	420
aaaagttaca	aacataccta	atcaaataaa	taataataaa	aaaagaattt	gaatgtattt	480
gttaagtata	ctaaaaccac	tacatagaat	aatggcaact	ttcactcaca	gattatttac	540
atggtaatac	ccagcgtggg	tacactgcta	caaaactcaa	aacagaagga	gtaaaacttga	600
aatgttttcc	ataataaaga	tctagcanca	tgactatcct	aatgccgttt	tatcccgaat	660
gcttctggca	acgttccctt	ttaatccggg	gtctcatcca	attcaaaaaa	tggcctttac	720
caaaaaatat	ccttttacia	gaaagaaacc	cgtt			754

&lt;210&gt; 325

&lt;211&gt; 854

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 325

ggtcaggggt	gagagctgga	atctctgcac	gggccttgga	aaacgactgt	cttctttctgc	60
caaaatgtca	ggaattggaa	ataaaagagc	agctggagaa	cctggcacct	ccatgcctcc	120
tgagaagaag	gcagctgttg	aagattcagg	gaccacagt	gaaacaatta	agctaggagg	180
tgtctcttca	acggaggaac	tagacattag	aacactgcaa	acaaaaaatc	gcaagctggc	240
agaaatgttg	gatcagcggc	aggccattga	agatgaactt	cgtgagcaca	ttgaaaaact	300
ggaacgcaga	caggccactg	atgatgcctc	actattgatt	gtcaaccgat	actggagtca	360
gtttgatgaa	aacatccgta	tcatccttaa	acgttatgat	ctggagcagg	gcttgggaga	420
cctactcaca	gaacgaaaag	cccttggtgt	gcctgaacca	gaaccagact	ctgatagcaa	480
tcaggagcgt	aaagatgacc	gagagagagc	agttccagt	aagagatgga	gtctcagctg	540
caggaacgtg	tgaggtcttc	ccgccgagcc	gtgtcccaga	ttgtgactgt	ttatgataaa	600
ttgcaagaaa	aagtggagct	cttatcccgg	gaagctaaac	agtgggagat	aatctgatag	660
tgagggggag	canttgcaag	gagctgaact	cttctctcgc	acaaggagaa	tattaaggct	720
acanggaatt	gacaagatct	tcctcaggaa	aaagcatcgc	aaccatggtc	tcaaggngtt	780
cctccaaagt	tgcaagaggt	aaaattgggg	naaaagccga	attcaccaan	tttccggtcc	840
tggaagtcca	anga					854

&lt;210&gt; 326

&lt;211&gt; 760

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 326

caaaactgaat	cctgctttta	ttcaagcttg	tggaagaaca	agtcctacag	aaacattcca	60
cagaattttc	tggaagagag	ggatcacaa	aaccctgtaa	aaaggagact	gagagtaatt	120
catagctcac	caagttctct	ccgtatcaaa	tttccagaat	acccacaaga	tttcttcacc	180
agctcagtc	tgactcaacc	tcttcaatct	ttatttcatt	agaagacaaa	gggtcatatt	240
atttaaaatt	attctagtct	caagaaattt	aaagacttga	agtagtagag	cattcaaaac	300

ttaaataact	ttaacaagaa	agccagctga	tcttaacaag	ttactctgct	agtaaattggg	360
aaatagactg	aatcatccta	gacataattt	cattagggct	gcaaaccacc	caggggagag	420
tagcacaatt	ataccatttt	gtaatccaca	ttcacaagaa	gtttgctaca	caaatgaaga	480
aaactttgtg	cccatagaca	acttattttt	taaaatatca	ctccccaaaa	gtagccatgt	540
ttccactttt	gttccctttt	ccacatcaaa	aataccaact	tgatttcttc	aggaggaatg	600
gacaatccaa	gtttatacaa	gtgggctggg	aaaaagaaaa	cactgaaaag	tctaaaagca	660
caagataaac	aaagcctggg	aagggaagac	agttaagagt	tatttgtttc	caantcaatc	720
cnaaaaccca	anggcttgta	attaacaagt	cctttccggc			760

&lt;210&gt; 327

&lt;211&gt; 852

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 327

caaagcagtt	ctttgcaaac	ctttaacaat	gacaaaagct	acttactgta	aacctcacat	60
gcagacccaa	tcttgtcaga	cagatgatac	ttggaggaca	gaatatgttc	cagtgcctat	120
ccctgtgcct	gtgtatatcc	cagttcctat	gcacatgtac	agtcagaata	ttcctgttcc	180
tactacagtt	cctgttctctg	tgccagttcc	tgttttctctg	cctgctccat	tggacagcag	240
tgagaagatt	cctgcagcaa	ttgaggagct	aaaaagcaag	gtttcttcag	atgctcttga	300
tacagagttg	cttacaatga	cggatatgat	gagtgaagac	gaggggaaaa	cagagacaac	360
caacatcaac	agtgttaatta	ttgaaacaga	tataattggg	tcagaccttt	tgaagaactc	420
tgacccagag	acacagtcca	gcatgcctga	tgtaccatat	gaaccaagat	ttggatatcg	480
aaatagattt	tcccagagct	gctgaggagc	ttgatatgga	aaatgaattt	ttattaccac	540
ctgttttttg	cgaagaatat	gaggaacagc	ccaagacctc	gatctaaaaa	aaaagggagc	600
caagagaaan	gctgtatcaa	ggataccaag	tctcatgatg	ataagtctga	caatttcaga	660
atgcagcnn	cctttcaaat	tatacgtatg	ggcgtaaatg	catgggnaac	accgggtcaa	720
aaactaagnn	acttggatga	aagatcntcc	gggnaattag	aatgagttaa	aatccttcca	780
aatccantna	agtttaaaag	agggtnaat	ccctcaaaa	ccanagctgg	ngccttaaca	840
agggggttaa	cc					852

&lt;210&gt; 328

&lt;211&gt; 799

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 328

aaaaggacac	taagggtttta	ataaggggaa	caaaaaattg	ttttcaccag	catagattca	60
cattacagta	caccaatatt	gacagcattc	tcttgtctat	ttttggtaca	gaagatggta	120
tctctctaca	taaccttgta	aggcttcagt	aactaaaatg	taaaaccaaa	caaaacaaaa	180
ccccaaaaca	aaacaaaaac	cccagcctat	tagtttacag	tttattttta	aaattccgaa	240
agacactgca	agttctaaac	tttttagtagt	gctaccata	cacaaccatc	tggttaagaa	300
cccagtaaaa	gagccccctt	ccaaggaagc	tttgcaacag	tagagttgtg	caatatggat	360
gtttcttact	acaagaaaaa	aattatacat	ggcacattct	cattcatatt	ctgtaattga	420
aaaagttaca	aacataccta	atcaaataaa	taataataaa	aaaagaattt	gaatgtattt	480
gttaagtata	ctaaaaccac	tacatagaat	aatggcaact	ttcactcaca	gattattttac	540
atggtataac	ccagcgtggg	tacactgcta	caaaactcaa	aacagaanga	gtaaacttga	600
aatgttttcc	ataataaaga	tctagcaaca	tgactatcca	atgctgtttt	atcccagattg	660
cttctgcaac	gttcctttta	atccgtgtct	catccagttc	anaantgtcc	ttatcaanaa	720
taacctttac	tagaagaaac	cgtncaagca	tattttcaan	gggtttccgg	tccaattgaa	780
ggtanacgtn	taccaaaca					799

&lt;210&gt; 329

&lt;211&gt; 978

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 329

ggaagatggc	ggcggccggt	ccacagcggg	cgtggaccgt	ggagcagctg	cgcagtgagc	60
agctgcccaa	gaaggacatt	atcaagtttc	tgcaggaaca	cggttcanat	tcgtttcttg	120
cagaacataa	attattagga	aacattaaaa	atgtggccaa	gacagctaac	aaggaccact	180
tggttacagc	ctataacccat	ctttttgaaa	actaagcgtt	ttaaggggtac	tgaaagtata	240
agtaaagtgt	ctgagcaagt	aaaaaatgtg	aagcttaaat	gaagataaac	ccaaagaaac	300
caagtctgaa	gagaccctgg	atgagggtcc	cccaaaatat	actaaatcct	gttctgaaaa	360
aggagataaa	aaccaacttt	cccaaaaagg	gagatgttgt	tactgctgg	tatacaggaa	420
cactacaaga	tgggactggt	tttgatacta	atattcaaac	aagtgcaaag	aagaagaaaa	480
atgccaaagc	tttaagtttt	aaggtcggag	taggcaaagt	tatcagagga	tgggatgaag	540
ctctcttgac	tatgagtaaa	ggagaaaagg	ctcgactgga	gattgaacca	gaatgggctt	600
acggaaagaa	aggacagcct	gatgccaaaa	ttccnccaaa	tgcaaaactc	acttttgaa	660
tggaattagt	ggatattgat	tgaaatagca	gtgcttcagc	tctaaggata	ttagcaacaa	720
tgataaaact	tggccttgaa	gaaatttacn	caactagtta	gaacttggtt	ctattgtaaa	780
ggaagagtca	actggaaaat	tcaaggagtt	aataaaat	gtttacttgg	tcccagcttt	840
tgagagataa	atcccttatg	aatccctggt	ctaaaaat	ttcctacagc	tgtgtaaaa	900
actggtcaag	gagaactttt	tcctttttacc	tcattgtgta	aacttaagt	gctcaataaa	960
aattgatccn	ctgtcttg					978

&lt;210&gt; 330

&lt;211&gt; 1017

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 330

cgatcggcgg	agctcccacc	tccgcttaca	gctcgtctgc	gccgtcctgc	cccgcgcccc	60
caggagacct	ggaccagacc	acgatgtgga	aacgctggct	cgcgctcgcg	ctcgcgctgg	120
tggcggctgc	ctgggtccgc	gccgaggaag	agctaaggag	caaataccaag	atctgtgcc	180
atgtgttttg	tggagccggc	cgggaatgtg	cagtcacaga	gaaaggggaa	cccacctgtc	240
tctgcattga	gcaatgcaaa	cctcacaaaga	ggcctgtgtg	tggcagtaat	ggcaagacct	300
acctcaacca	ctgtgaactg	catcgagatg	cctgcctcac	tggatccaaa	atccaggttg	360
attacgatgg	acactgcaaa	gagaagaaat	ccgtaagtcc	atctgccagc	ccagttgttt	420
gctatcagtc	caaccgtgat	gagctccgac	gtcgcacat	ccagtggctg	gaagctgaga	480
tcattccaga	tggctggttc	tctaaaggca	gcaactacag	tgaaatccta	gacaagtatt	540
ttaagaactt	tgataatggt	gattctcgc	tggactccag	tgaattcctg	aagtttgttg	600
aacagaatga	aactgccatc	aatattacaa	cgtatccaga	ccaggagaac	aacaagttgc	660
ttaggggact	ctgtgttgat	gctctcattg	aactgtctga	tgaaaatgct	gattggaac	720
tcagcttcca	agagtttctc	aagtgcctca	acccatcttt	caaccctcct	gagaagaagt	780
gtgccctgga	ggatgaaacg	tatgcagatg	gagctgagac	cgangtggac	tgtaaccgcg	840
tgtgtctgtg	cctgtggaaa	ttgggtctgt	cagccatgac	ctgtgacnga	aagaatcaga	900
agggggccca	gaccagacn	gaggangaga	tgancngata	tgtccaggag	ctccaaagct	960
taggaaacag	cttgaaaaga	nccagagagg	gagccccc	agagattatg	aggaggc	1017

&lt;210&gt; 331

&lt;211&gt; 799

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 331

cccagaaaga	tcatacagct	ttctgtaaaa	gaagatgtac	acctgaaaaa	ggcagaaaa	60
gcctggaagc	caagccaaaa	acgagacagc	caagccgatg	atcccgaaaa	cattaaaaacc	120
caggagcttt	ttagaaaagt	tcgaagtatc	ttaaataaat	tgacaccaca	gatgttcaat	180
caactgatga	agcaagtgtc	aggacttact	gttgacacag	aggagcggct	gaaaggagtt	240



attgacctgg	tctttgagaa	ggctattgat	gaacccagtt	tctctgtggc	ttacgcaaac	300
atgtgtcgat	gtctagtaac	gctgaaagta	cccatggcag	acaagcctgg	taacacagtg	360
aatttccgga	agctgctact	gaaccgttgc	cagaaggagt	ttgaaaaaga	taaagcagat	420
gatgatgtct	ttgagaagaa	gcagaaagaa	cttgaggctg	ccagtgtctcc	agaggagagg	480
acaaggcttc	atgatgaact	ggaagaagcc	aaggacaaag	ccggcgagg	atccattggc	540
aacatcaagt	ttattggaga	actctttaa	ctcaaatgc	tgactgaagc	catcatgcat	600
gactgtgtgg	tgaagctgct	aaagaacccat	gatgaagaat	ccttgaggatg	cctgtgtcgc	660
ctgctcacca	ccattggcaa	agacttggac	tttgaaaaaa	gccaaagcca	cgtatggacc	720
cagtacttta	atcagatgga	gaaaattgtg	aaaggaaaga	aaaacctcat	ctaggatcgg	780
gtcatgcttt	caggaggtt					799

&lt;210&gt; 332

&lt;211&gt; 881

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 332

cgatcggcgg	agctcccacc	tccgcttaca	gctcgtgccc	gccgtcctgc	cccgcgcccc	60
caggagacct	ggaccagacc	acgatgtgga	aacgctggct	cgcgctcgcg	ctcgcgctgg	120
tggcggctgc	ctgggtccgc	gccgaggaag	agctaaggag	caaataccaag	atctgtgcca	180
atgtgttttg	tggagccggc	cgggaatgtg	cagtcacaga	gaaaggggaa	cccacctgtc	240
tctgcattga	gcaatgcaaa	cctcacaa	ggcctgtgtg	tggcagtaat	ggcaagacct	300
acctcaacca	ctgtgaaactg	catcgagatg	cctgcctcac	tggatccaaa	atccaggttg	360
attacgatgg	acactgcaaa	gagaagaaat	ccgtaagtcc	atctgccagc	ccagtgtgtt	420
gctatcagtc	caaccgtgat	gagctccgac	gtcgcacatc	ccagtggctg	gaagctgaga	480
tcattccaga	tggctgggtc	tctaaaggca	gcaactacag	tgaaatccta	gacaagtatt	540
ttaagaactt	tgataatggt	gattctcgcc	tggactccag	tgaattcctg	aagtttgtgg	600
aacagaatga	aactgccatc	aatattacaa	cgtatccaga	ccaggagaac	aacaagttgc	660
ttaagggact	ctgtgttgat	gctctcattg	aactgtctga	tgaaaatgct	gantggaaac	720
ttagctttca	agaagtttct	caagngcctt	naacccatct	ttnaaccttc	ttgagaagaa	780
tgtgcccttg	gaggatgaaa	cgtatgccan	atggagcttg	aaancgaggt	ggactgtaan	840
ccgttggntc	gggncctggg	gaaaattggg	tcttggacaa	g		881

&lt;210&gt; 333

&lt;211&gt; 810

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 333

gtgcagtcac	agagaaagg	gaacccacct	gtctctgcat	tgagcaatgc	aaacctcaca	60
agaggcctgt	gtgtggcagt	aatggcaaga	cctacctcaa	ccactgtgaa	ctgcatcgag	120
atgcctgcct	cactggatcc	aaaatccagg	ttgattacga	tggacactgc	aaagagaaga	180
aatccgtaag	tccatctgcc	agcccagttg	tttgctatca	gtccaaccgt	gatgagctcc	240
gacgtcgcac	catccagtgg	ctggaagctg	agatcattcc	agatggctgg	ttctctaaag	300
gcagcaacta	cagtgaatc	ctagacaagt	atlttaagaa	ctttgataat	ggtgattctc	360
gcctggactc	cagtgaattc	ctgaagtttg	tggaaacagaa	tgaaactgcc	atcaatatta	420
caacgtatcc	agaccaggag	aacaacaagt	tgcttagggg	actctgtgtt	gatgctctca	480
ttgaactgtc	tgatgaaaat	gctgattgga	aactcagctt	ccaagagttt	ctcaagtgcc	540
tcaacccatc	tttcaaccct	cctgagaaga	agtgtgccct	ggaggatgaa	acgtatgcag	600
atggagctga	gaccgangtg	gactgtaacc	cgctgtgtct	gtgcctgtgg	aaattgggtc	660
tgtcagccat	gacctgtgac	ngaagaatc	agaagggggc	ccagaccag	acngaggang	720
agatgancng	atatgtccag	gagctccaaa	gcttaggaaa	cagcttgaaa	aganccagag	780
aggagagcccc	caaagagatt	atgaggaggc				810

&lt;210&gt; 334

&lt;211&gt; 808

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 334

cactttaatt	tctttattca	tcaatagtat	ccgaaaagga	agaatcagga	gttacaaaaa	60
caagttaa	gcaatataga	agcctactaa	atacaatac	aagttcacia	acacatatgc	120
aacagaaact	tgtttagatt	gtttcttgaa	gtttgactac	ttaaaaacat	agggtgtaaag	180
gaaagacatt	cagactgggc	cacgtgggct	tgtagcagg	cagaggaacc	ctgctttcca	240
aaaactgata	tagtccagag	tcacggcatg	tggaatgtt	tccatggaca	ctggatctta	300
acagatgcta	tagtgtttac	aaaactacac	acacagagaa	agcccaagga	agcctgcagg	360
ctaagcccta	tgcttttaga	gggctgaagg	aaccaaact	agtttaatcc	tgtttgtttg	420
ctccatgcaa	aactttatgg	aagactcccc	agactaggct	atttagcagc	ttccatgaat	480
ggctctcaga	tcatgtgatt	ctacggcata	gacgacagct	gccctattta	cacagaagct	540
gcagaactca	agaggaatgt	ggatttgctc	ttgggaagtt	caatgttgca	gggtaaagta	600
agtcttggat	gataaccatg	ttctaaatga	ctagtgaaga	gacactgngg	tttcttgctt	660
ttaacaaatt	gnggactct	tgcccttct	tcccatagn	tccaagggt	ggtaaaact	720
ttggattaag	gcgtgnctgc	ttgggagttc	ttccaaggca	ctttggacca	gggaacctgc	780
atttcaaact	ggaccaagtg	gaggtttg				808

&lt;210&gt; 335

&lt;211&gt; 758

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 335

gcaattgggt	atctcgaaga	gcagatcaag	ggcctaaaac	tatcgaacag	attcacaaag	60
aggctaaa	agaagaacaa	gaagagcaaa	ggaaggcca	gcaactcatg	accaaagaga	120
agagaagacc	agggtgccag	agagtggacg	aagggtgggtg	gaacactgta	caaggggcca	180
agaacagtcg	ggtactggac	ccctcaaaat	tcctaaaaat	cactaagcct	acaattgatg	240
aaaaaattca	gctggtacct	aaagcacagc	taggcagctg	gggaaaaggc	agcagtgggtg	300
gagcaaaaggc	aagtggagact	gatgccttac	ggtcaagtgc	ttccagttta	aacagattct	360
ctgccctgca	acctccagca	ccctcagggt	ccacgccatc	cacgcctgta	gagtttgatt	420
cccgaaggac	cttaactagt	cgtggaagta	tgggcaggga	gaagaatgac	aagccccttc	480
catctgcaac	agctgggcca	aatactttca	tgagggtggg	cagcagtaaa	gacctgctag	540
acaatcagtc	tcaagaagag	cagcggagag	agatgctgga	gaccgtgaag	cagctnacan	600
gaggtgtgga	tgtggagagg	aacagccttg	agctgaaccg	aaataaacia	gggagtcagc	660
aaaaccccg	aanttcagca	atgtcagctt	attgacaagg	gttgattatc	agaagaggac	720
tgganaggaa	gtccaaatct	atcatggtna	atttttttc			758

&lt;210&gt; 336

&lt;211&gt; 785

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 336

aaacttgcaa	tgtttgctct	tattttgttc	tttatatttt	caaagtga	agaaatagta	60
ctgagtcaat	ttctttttgt	ttttttaaat	atttgttcta	tgatattaca	agccttaaag	120
ttgctctaaa	gattttcaaga	gtattaagag	tacttttctc	agggtagcac	tttttttttt	180
tttaaacaa	tcttgaggtt	ctgtgggtcca	cagcatttcc	ttctgtttca	atgttatgta	240
cgttttgatt	actattgnga	ttttttaaat	tttctgaagc	aagctgagag	gcaggcagaa	300
agatttgatg	ccaaaaaaaa	aaaaatcttt	cttaccttgt	tcacccaaa	ctttctcaaa	360
tctggactaa	atgctatacc	ttaaaacaaa	catgagngc	atcttgaagg	ggagggaaat	420
ttattttctc	gcttttctat	tatacaagtt	gtttacagaa	actgcaaatt	aaaaaattac	480
actggcattt	gcagtcctta	aaataaatta	aaagttctca	actttttttt	ttttgctaaa	540

cattttttta	agtatgagtc	cttgttttaa	aagaaaagat	taaaacagaa	aatattttct	600
ataaatacnt	gnatttttggg	tttaagggct	cccgccctaa	ggnttgaagg	ttacttttat	660
cccaggaccc	tttttctctc	atggaacccc	tttttttcnc	ttttcccttt	tcccacttcg	720
ngccnccent	nggggggttc	tggcaaaaaa	tggcccttgc	tgcncctggg	aattggccaa	780
aaacc						785

&lt;210&gt; 337

&lt;211&gt; 643

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 337

ggaagatggc	ggcgccggtt	ccacagcggg	cgtggaccgt	ggagcagctg	cgcagtgagc	60
agctgcccc	gaaggacatt	atcaagtttc	tgcaggaaca	cggttcanat	tcgtttcttg	120
cagaacataa	attattagga	aacattaaaa	atgtggccaa	gacagctaac	aaggaccact	180
tggttacagc	ctataaccat	ctttttgaaa	actaagcgtt	ttaanggtac	tgaangnta	240
nntaaagtgt	ctgancaagt	naaaaatggn	aanccttantg	aagataancc	caaagaaacc	300
aagtntgang	agaccctgga	tgaggggtcca	ccnaaatata	ctaaatctgn	tctgaaaaag	360
ggagataaaa	ccaactttcc	caaaaaggga	gatgttggtc	actgctggta	tacaggaaca	420
ctacaagatg	ggactgtttt	tgatacta	attcaaaca	gtgcaaagaa	naagaaaaat	480
gccaagcctt	taagttttta	ggtcggagta	cgcaaaagtt	atcanaggat	ggggatgaag	540
ctctcttgac	tatgagtaaa	ggagaaaagg	ctngactgga	aatggaccc	aaaatggctt	600
accggaaaga	aagggacagc	ctgatnccaa	aatttcccca	aat		643

&lt;210&gt; 338

&lt;211&gt; 831

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 338

caagacagng	gatcaatttt	tattgagcca	cttaagttta	caacatgagg	taaaaggaaa	60
aagttctcct	tgaccagtat	tttacacagc	tgtaggaaa	tatttttagac	cagggattca	120
taagggtatt	atctctcaaa	agctgggacc	aagtaaaca	attttattaa	ctccttgaat	180
tttccagttg	actcttcctt	tacaatagta	acaagttcta	actagttgng	taaatttctt	240
caaggccaag	ttttatcatt	gttgctaata	tccttagagc	tgaagcactg	ctatttcaat	300
caatatccac	taattccact	tcaaaagtga	gttttgcat	tggnggaatt	ttggcatcag	360
gctgtccttt	ctttccgtaa	gccattctg	gttcaatctc	cagtcgagcc	ttttctcctt	420
tactcatagt	caagagagct	tcattccatc	ctctgataac	tttgccact	ccgaccttaa	480
aacttaaagg	cttggcattt	ttcttcttct	ttgcacttgt	ttgaatatta	gtatcaaaaa	540
cagtcccatc	ttgtagtgtt	cctgtatacc	agcagtgaac	aacatctccc	tttttgggaa	600
agttgggttt	atctcccttt	ttcagaacag	gatttagtat	attttggggg	accctcatcc	660
agggtctctt	cagacttggt	ttctttgggt	ttatcttcat	ttaagcttca	cattttttac	720
ttgctcagac	actttactta	tactttcagt	acccttaaaa	ccgcttaagt	ttcaaaaaag	780
agggttatag	gctgnaaccc	aaggggggcc	ttggtnagct	ggccttgggc	c	831

&lt;210&gt; 339

&lt;211&gt; 758

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 339

ccaacatgtc	ccgtgggttc	agcgccggtt	ttgaccgcca	cattaccatt	ttttcaccgc	60
agggtcggct	ctaccaagta	gaatatgctt	ttaaggctat	taaccagggt	ggccttacat	120
cagtactgtg	cagagggaaa	gactgtgcag	taattgtcac	acagaagaaa	gtacctgaca	180
aattattgga	ttccagcaca	gtgactcact	tattcaagat	aactgaaaac	attggttgtg	240

tgatgaccgg	aatgacagct	gacagcagat	cccagggtaca	gagggcacgc	tatgaggcag	300
ctaactggaa	atacaagtat	ggctatgaga	ttcctgtgga	catgctgtgt	aaaagaattg	360
ccgatatttc	tcagggtctac	acacagaatg	ctgaaatgag	gcctcttggt	tggtgtatga	420
ttttaattgg	tatagatgaa	gagcaaggcc	ctcagggtata	taagtgtgat	cctgcagggt	480
actactgtgg	gtttaaagcc	actgcagcgg	gagttaaaca	aactgagtca	accagcttcc	540
ttgaaaaaaa	agtgaagaag	aaatttgatt	ggacatttga	acagacagtg	gaaactgcaa	600
ttacatgcct	gtctactggg	ctatcaattg	atttcaaacc	ttcagaaata	gaagttggag	660
tagtgacagt	tgaaaatcct	aaattcagga	ttcttacngg	aagcagagat	tgatgcttac	720
cttgtgnttt	agcngagagg	agacttaacc	attggccg			758

&lt;210&gt; 340

&lt;211&gt; 840

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 340

ccaaaagcct	tgttttat	atatagagtc	ctaaccactt	cgggtgtagg	aggagtggga	60
gaggctcctt	tttcaatcca	gggacctcca	tgatgttggt	ttgttggttac	caaacacaca	120
ggtaagtggc	atcacggatc	tggtaaacta	acgacaatgt	ttagtctctc	tctgctagag	180
caacaagggtg	agcatcaatc	tctgcttctg	taanaatcct	gaatttagga	ttttcaactg	240
tcactactcc	aacttctatt	tctgaagggt	tgaaatcaat	tgatagaaca	gtagacagggc	300
atgtaattgc	agtttccact	gtctgttcaa	atgtccaatc	aaatttcttc	ttcacttttt	360
tttcaaggaa	gctgggtgac	tcagtttggt	taactcccgc	tcagtggtct	ttaaacccac	420
agtagtaacc	tcaggatca	cacttatata	cctgagggcc	ttgctcttca	tctataccaa	480
ttaaaatcat	acaacaacca	agaggcctca	tttcagcatt	ctgtgtgtag	acctgagaaa	540
tatcggcaat	tcttttacac	agcatgtcca	caggaatctc	atagccatac	ttggatttcc	600
agtttagctgc	ctcatagccg	tgcccttctg	tacctgggat	ctgctgtcag	ctgcattccg	660
gtcatcacac	aaccaatggg	ttcagttatc	ttggaataag	tgaggtcact	gngctggaat	720
nccaataatt	tggcaggnac	ctttctttct	gggngacaa	ttactggccc	agtcttttcc	780
tttgagacagn	tactggaggt	aagggccacc	ctgggttaat	agccctttaa	aggcntaatc	840

&lt;210&gt; 341

&lt;211&gt; 793

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 341

cactttaatt	tctttattca	tnaatagtat	ccgaaaagga	agaatcagga	gttacaaaaa	60
caagttaa	gcaatataga	agcctactaa	atacaaatac	aagttcacaa	acacatatgc	120
aacagaaact	tgtttanatt	gtttcttgaa	gtttgactac	ttaaaaacat	aggngtaaag	180
gaaagacatt	canactggtc	cncgngggct	tgntagcagg	cagaggaacc	ctgctttcca	240
aaaactgnta	tagtccanan	tcncggcatg	ngggaatgnt	tccatggacn	ctggatctta	300
acagatgcta	tagggtttac	aaaactacnc	acncagagaa	agcccaagga	agcctgcagg	360
ctaagcccta	tgcttttaga	gggctgaagg	aaccaaacct	agtttaatcc	tgtttgnttg	420
ctccatgcaa	aactttttgg	aaactcccc	agactaggct	ttttancagn	nttccattga	480
atggggcnn	aaancnttgg	gaattttacg	gntnaaancn	aaagntngcc	ttntttnccc	540
ccgaaagctt	tgaaaaactt	ttcagnggg	atnggggaat	ttgnttnttt	gggngngttc	600
aattgttnc	ngggtaaaaa	ganacccttg	gggaggnaaa	cccctgngtt	tnaannggcc	660
ttaggggaaa	naaccnttgg	gggtntcntt	ggntttttaa	caaaattggg	gggncntttt	720
ggncccttcc	cccaaaaagg	ggcccanggn	ctgnggaaaa	aaccttttgg	antaaggggg	780
gncccnctt	gga					793

&lt;210&gt; 342

&lt;211&gt; 906

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 342

```

ccaacatgtc ccgtggttcc agcgccgggt ttgaccgcca cattaccatt ttttcacccg      60
agggctcggc ctaccaagta gaatatgctt ttaaggctat taaccagggt ggccttacat      120
cagtagctgt cagagggaaa gactgtgcag taattgtcac acagaagaaa gtacctgaca      180
aattattgga ttccagcaca gtgactcact tattcaagat aactgaaaac attggttggtg      240
tgatgaccgg aatgacagct gacagcagat cccagggtaca gagggcacgc tatgaggcag      300
ctaactggaa atacaagtat ggctatgaga ttctgttgga catgctgtgt aaaagaattg      360
ccgatatttc tcagggtctac acacagaatg ctgaaatgag gcctcttggt tgttgatga      420
ttttaattgg tatagatgaa gagcaaggcc ctcagggtata taagtgtgat cctgcagggt      480
actactgtgg gttttaaagcc actgcagcgg gagttaaaca aactgagtca accagcttcc      540
ttgaaaaaaa agtgaagaag aaatttgatt ggacatttga acagacagtg gaaactgcaa      600
ttacatgcct gtctactgtt ctatcaattg atttcaaacc ttcagaaata gaagttggag      660
tagtgacagt tgaaaatcct aaattcagga ttnttacaga agcagagatt gatgtcacc      720
ttgttgctct agcagagaga gactaaacat tgcgttagt ttaccagatc cgtgatgcca      780
cttacctgtg tgtttggtaa caacaaacca acatcatgga ggtccctgga ttgaaaaagg      840
agcctctccc actcctccta ccaccgaagt ggtaggact ctatataaat aaaacaaggc      900
ttttgg                                           906

```

&lt;210&gt; 343

&lt;211&gt; 875

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 343

```

gcaaggcaat tgagcgtgga acaggaaatg acaattatag aacaacggga attgctacaa      60
tcgagggtgt tttaccacca agactaaaaa aagataggaa aaacttggtg gagaccgat      120
tgcacatcac tggcagagaa ctgagggtcca aaatagctga aacctttgga cttcaagaaa      180
attatatcaa aattgtcata aataagaagc aactacaact agggaaaacc cttgaagaac      240
aaggcgtggc tcacaatgtg aaagcgtatg tgcttgaact aaaacaatct gaagaggacg      300
cgaggaaaaa cttccagtta gaggaagagg agcaaaatga ggccaaactc aaagaaaaac      360
aaattcagag gaccaagaga ggactagaaa tactggcaaa gagagcagca gagacagtgg      420
tggatccaga aatgacaccg tacttagaca tagctaacca gacaggcaga tcaatcagaa      480
ttcccccatc agaaagaaaa gcccttatgt tagctatggg atatcatgag aagggcagag      540
ctttcctgaa aagaaaaagaa tatggaatag ccttgccatg tctgttggtg gctgacaaat      600
atctctgtga gtgttgacaga gagctgctgg acacagtggg taactatgcc cgtcttcagc      660
tggatatagt gtggtgttac ttctgcctgg aacagctgga atgccttgat gatgcagaaa      720
aaaaattaac ttggnccaga aatgctttaa aaattgggtc ggagaaatcn tcgaaactgg      780
tccccntaaa nggaattgtg gggaaaagag aangtctggt tctaagactn tacttacttt      840
nagggatccg aacttttcca gggggaatga tgtaa                                           875

```

&lt;210&gt; 344

&lt;211&gt; 629

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 344

```

atatttccca ccttttattt ccatcggtat catccgttta aaaagaatga caagaagatt      60
cccatcagtc caaactggac caccacact ttgaaaaagt tggagcattt cagccggctc      120
cgcatgatcc atcctgtctt cagtcagtgc cttctggaag ggagggaag tcttggtg      180
acctggcact caatccactc ggcacctggc tgctgtgcg gtcctggggc tggaaggaaac      240
tccactggg cacacatcta cagaggagtg cgtggcgcag tgaggacggg tactgtgga      300
gccgacacac agcgaactac atacttttag aaagagctc tgtcacatgg ctagaacaac      360
aacaacaaca aagaaaaccc acaaaaaacc tggagaaaat atatctaaat ctctgatagg      420

```

tctcttagct	agcagtgagt	tcagtatgac	agcacagagt	ctaaaaatat	taattaaaaa	480
taaatgtgctt	tggttagcat	ttaaaccctt	cccattcaat	agaagatttc	tgtaatgagg	540
aatgctgaat	atatataaag	cctgccactc	aatctttgaa	tttcnggggg	cgcaatttta	600
ctgaactaag	anccctaaaa	caactggcg				629

<210> 345  
 <211> 724  
 <212> DNA  
 <213> Homo Sapiens

<400> 345						
cttgggtggt	tatttttncct	ttctgngtcc	tccccanca	gcagttggaa	ttttcttttg	60
aacacaaagt	aaattaatgt	tnatactgnt	ttttcacctg	agtcattgtaa	aaggtgactc	120
ctttcatttt	aaaaagttat	atttaatttt	tgggggcctt	aattaaaatt	taacatttaa	180
ccatgngtnn	tttttttgta	aacagtctac	atgtcaacaa	atggataagg	gttaacaaag	240
gcaaatnctg	acttcatttg	tgtttttaac	acgattatat	gaatttttct	tttttaatta	300
aaaaaatgac	ataaaacat	tcatataggt	cctcttctct	caactgcttt	gagatatagc	360
tttaaatatg	gtagatcaa	gacaagtaat	gttggnaatc	tcttatcttg	catagaaaag	420
aaaaaaataa	aggaacttat	ttccttccta	aggtctcagc	tagtttctta	ngtcttttct	480
tcagctccaa	tggaaattnc	tcatagcact	tcttacagac	tggcttcattg	tcaaactcca	540
caaacttatt	cttgantgtt	aatttagtgt	tgcaggtana	acaggcaaag	cagttcacgc	600
accaggcctt	attaagagca	gagaccccca	tcaccttcta	taacacgatt	gcagtgggaa	660
gcaaacatca	ccaaatagct	gggttatagn	gagtttcaca	atatgcccag	gcctttcctt	720
tcaa						724

<210> 346  
 <211> 907  
 <212> DNA  
 <213> Homo Sapiens

<400> 346						
agagcgaaat	tttaccactg	agcaagtgc	tgccatgctt	ttgtccaaac	tgaaggagac	60
agccgaaagt	gttcttaaga	agcctgtagt	tgactgtgtt	gtttcgggtc	cttgtttcta	120
tactgatgca	gaaagacgat	cagtgatgga	tgcaacacag	attgctggtc	ttaattgctt	180
gcgattaatg	aatgaaacca	ctgcagttgc	tcttgcatat	ggaatctata	agcaggatct	240
tcctgcctta	gaagagaaac	caagaaatgt	agtttttgta	gacatgggcc	actctgctta	300
tcaagtttct	gtatgtgcat	ttaatagagg	aaaactgaaa	gttctggcca	ctgcatttga	360
cacgacattg	ggaggtagaa	aatttgatga	agtgttagta	aatcacttct	gtgaagaatt	420
tgggaagaaa	tacaagctag	acattaagtc	caaaatccgt	gcattattac	gactctctca	480
ggagtgtgag	aaactcaaga	aattgatgag	tgcaaatgct	tcagatctcc	ctttgagcat	540
tgaatgtttt	atgaatgatg	ttgatgtatc	tggaaactatg	aatagaggca	aatttctgga	600
gatgtgcaat	gatctcttag	ctagagtggg	gccaccactt	cgtagtgttt	tggaaacaaa	660
ccaagttaaa	gaaagaagat	atztatgcag	tggagatagt	tgggtgtgct	acacgaatcc	720
ctgcggtaaa	aggagaagat	cagcaaaatt	tttcggtaaa	gaacttagta	caaccnttaa	780
atgctgatga	aactgcactc	gaggctgggc	cattgcantg	ggccatctta	tcgcctgctt	840
tcaaagtccg	agaantttct	atcactgatg	tagtaccata	tccatatctc	tgaaaaggga	900
atcttcc						907

<210> 347  
 <211> 711  
 <212> DNA  
 <213> Homo Sapiens

<400> 347						
ataatagnct	gttttaatan	aaacaagngt	tggaaatcaat	caatgnccat	ttcaggaagc	60

ttnttgtctg	aatccgaagg	cncagctgng	tctgtaccct	gctcancagc	ctgggggcct	120
gggttgtctc	cttgnccatc	cactgggtcca	ttctgtctctg	catttttttg	ttcctntttt	180
ggagggtcca	ctttgggttt	gggctttgaa	attatagggc	tacaagtact	tgncagctcc	240
ttaattttag	cttcaatctc	ttttgacttg	acaactggat	ccatggncaa	actntgcttg	300
ttctgcaa	ttagcttgg	attcatccac	tccattgctt	catttgggct	tttttctacc	360
tttgtcatgt	cagcagcatc	cgaatgatca	tactggctct	ccttgntttt	gaaagagctg	420
attattttca	tatactgntg	aatctgnttc	cctagtctct	caaataattt	tggctgcttct	480
tnaaattcct	ggaaacgtat	nttaataggt	tgacctaaat	tttttaattc	agccaactta	540
tcaacataaa	cttgcttttg	ctggcttctc	catcctcata	caaccaattt	tcagtatctt	600
ccagtttcaa	agtaaaactg	ttacgancat	nttcactnnc	aaacttctca	tattcnccac	660
taaagcttgg	ctctcatttc	ataccccata	tttctctcca	ctggggtctt	a	711

&lt;210&gt; 348

&lt;211&gt; 862

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 348

cttgagcctc	atgtaaccgg	cgtcttagat	caccaatctc	ctcttgggct	tcagatttaa	60
tgctatttgc	aatgactact	gcagtctgga	gatcagcctg	aaactgccgc	cattccgcag	120
attcttcccg	aagtcttctg	tggagtgtct	ttatttctct	ttccatgtcg	tgcttttggg	180
cctggagtgt	tttaactgta	ttctctagat	cagaaataat	gaggttgtca	tgaagtttca	240
cagcacgatg	ttgttctact	tcatcttcaa	gttcaaagat	ggtttcttct	atgtcactcc	300
tttctgtttc	tttttcatcc	aggtctgatc	ttaatttttc	taacgtcata	ttcaaattct	360
caatttgttt	cttagcttct	tcttggaagg	ctcggtattc	atcctctacc	ttagcaatgg	420
catctgttaa	tcgattggca	tcatttcggg	tatgagccag	atcttctctg	aagctactag	480
ccaaagtctc	tgctttttct	ttgtccagcc	tgacctctc	caggagggtcc	tgaatatcag	540
atttgnctcc	agagttatgg	atagaataca	gctctgccac	tttctgcttt	tcattctcca	600
gctgagcctt	caggcgattc	atctctatct	ggctactggc	cactgnggct	ttgnattcct	660
ctaacgtggc	tgncaaaggct	gcttttctct	tctgctcnac	tcaaataaat	tcgctccata	720
tggngggact	ggcgttcctt	tggagtggcc	cctatcattt	cttgnggctt	tccttantgg	780
ccttgggttc	tggccatttt	tccaaagtat	tggttttaaa	atggctggct	tgggacnccc	840
aaggaaagct	ggttcccggg	tc				862

&lt;210&gt; 349

&lt;211&gt; 832

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 349

aagacttttc	tacatcagtt	ttatttataaa	cacaaacaag	tatttctctt	tctgtaaggg	60
caaagtgttc	aaataatgct	gaacacgaaa	cattgactaa	tacaagtgtc	ttaaatatga	120
aacaaaatta	ttttttataaa	aagcaaaaga	ataaagaata	tatacaaaaag	ggacctggaa	180
tctgtaagct	gattccaaaa	acgaaataag	tagaaaatcc	atggtgaaac	ctgaacattc	240
tacctctgct	ttggagaagg	gctatcatat	aacattcagt	cagctgaaga	tggatttggt	300
gaggtgtgtc	tatacataaa	cttcagtcac	ttttgcttgt	gcagaatcat	cccaatcttc	360
ccaagactga	atgggcagtc	ctgtggcttt	cttccttttc	catattccca	acaaggctac	420
gtgaagttca	actcttgatg	agccgcttac	aacagcagtt	ccttaggagc	caacatgaca	480
ggtgggtcag	atttccctat	gagaaacaaa	actggccacc	tacagcaaaa	tatcaaaatg	540
ggtaaagtct	tccttctctc	tcctctgat	tatatataac	atatctcctt	tcaagactat	600
tatttccatc	atgcttatct	cttcacaaat	ctaaaccttg	aggtgatatg	aaggaaacca	660
acatcangaa	aagaaaactc	aattcagaaa	tgaagaaaac	tggcaggtat	acaatacacc	720
cccagaacat	ctcaatatcc	ctggccagta	caattcaagt	gnactgggta	caggcccata	780
ggattaaata	attgggcagc	ttgggaataa	agctcatttt	tttnccctca	gg	832

<210> 350  
 <211> 782  
 <212> DNA  
 <213> Homo Sapiens

<400> 350  
 ccnacatcag tttnattnaa aacacaanac agnattttctn tttcngnang gncaaagggt 60  
 tnaaanaang cgnanacacna ancatngact aatncaaggg cttnaaatat gaancaaaaat 120  
 natttttttaa aaaagcaaaa naataaanaa tatatncaaa ngggaccngn aatcngnaag 180  
 cngatnccaa aaccnaaata agtaaaaaan ccanggggaa nccngancat tcnacctnng 240  
 nttngnaaaa gggctatcat ncaacattca gncagntgaa nanggatngg nanaggnggg 300  
 ncnatncata ancttcagnc attttngctn gggcaaaatc atcccaatnt tcccaanact 360  
 gaanggnacg cccnggggct ttcttccttt nccanattcc caacanggnt acnggaagt 420  
 caactntnga nganccgttt acaacagcag ttccttagga nccancatga caggggggnc 480  
 aaatttccct atgagaanac aaacnggcc cctacagcaa aatatcaaaa ggggnaagnc 540  
 cttccttccct cttcctccng attatatnca ccatatctcc tttcangact atnatttcca 600  
 tcaggctnat tccttcacaa atntaaacct tgaggggata tgaaggaacc caacttcngg 660  
 aaangaaaac tcaattcana aattgaagaa acctggcagg tatacaatac cccccaggn 720  
 catntcaana tccttggcac aagnnccaat tcagggncct ggtaccagcc ccatagaana 780  
 aa 782

<210> 351  
 <211> 775  
 <212> DNA  
 <213> Homo Sapiens

<400> 351  
 ggcaaggcgg ctgctgcgaa tcacaaaaag aacagggatg aaagaagaga agaaccttca 60  
 ggaaggaaat gaagttgatt ctacagagcag tattagaaca gaagctaaag aggccttcagg 120  
 tgagaccaca ggagttgaca tcaactaaaat tcaagtcaag agatgtgaga ccatgagaga 180  
 gaagcacatg cagaaacagc aggagaggga aaaatcagtc ttgacacctc ttcggggaga 240  
 tgtagcatct tgcaataccc aagtggcaga gaaaccagtg ctcactgctg tgccaggaa 300  
 cacacggcac ctgaccaagc ggcttcccac aaagtcatcc cagaagggtg aggtagaaac 360  
 ctacaggatt ggagactcat tattgaatgt gaaatgtgca gcacagacct tggaaaaaag 420  
 gggtaaaagt aaacccaaag tgaacgtgaa gccatctgtg gttaaagttg tgtcatcccc 480  
 caaattggcc ccaaaacgta aggcagtgga gatgcacgct gctgtcattg ccgctgtgaa 540  
 gccactcagc tccagcagtg tccacagga acccccagcc aaaaaggcag ctgtggctgt 600  
 tgtcccgctt gtctctgagg acaaatcagt cactgtgcct gaagcagaaa atcctagaga 660  
 cagtccttgt gcttgncttc aaccagtcct tnttcagat tccttaccct cagaggtgtc 720  
 ttggnccctt cttcatncca aatggagcct tgaaaaactt cggccgactt agctt 775

<210> 352  
 <211> 865  
 <212> DNA  
 <213> Homo Sapiens

<400> 352  
 cctacatcag ttttatttaa aacacaaaca agtattttctc tttctgtaag ggcaaatggt 60  
 tcaaataatg cggaaacaga aacattgact aatacaagt ctttaaataat gaaacaaaat 120  
 tatttttttaa aaaagcaaaa gaataaagaa tatatacaaa agggacctgg aatctgtaag 180  
 gtgattccaa aaacgaaata agtagaaaat ccatggtgaa acctgaacat tctacctctg 240  
 ctttggagaa gggctatcat acaacattca gtcagctgaa gatggattgg tagagggtgtg 300  
 tctatacata aacttcagtc atttttgctt gtgcagaatc atcccaatct tcccaagact 360  
 gaatgggcag tcctgtggct ttcttccttt tccatattcc caacaaggct acgtgaagt 420  
 caactcttga tgagccgctt acaacagcag ttccttagga gccaacatga caggtgggtc 480



```

agatttcctt atgagaaaca aaactggcca cctacagcaa aatatcaaaa tgggtaagtc 540
cttccttcct cttcctcctg attatataca acatatctcc tttcaagact attatttcca 600
tcatgcttaa tncctccaaa tctaaacctt gagnggatat tgaanggaaa cccaccttca 660
nggaaaagaa aacctcaatt tcagaaatgg aagaaaaact ggcagggtat accaatacac 720
ccccccagag catTTTTTaaa atatccctgg ncacaagtnc caattcaagg gnacctgggt 780
ccggnccata gaataaaaana ntgggcactt tggaaaaaag cnccattttt ttcctctcag 840
gggggggttaa aaggggcccc aaacc 865

```

&lt;210&gt; 353

&lt;211&gt; 875

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 353

```

gacttttcta catcagtttt atttaaaaca caaacaagta tttctctttc tgtaagggca 60
aatgggttcaa ataatgcgga acacgaaaca ttgactaata caagtgcctt aaatatgaaa 120
caaaattatt ttttaaaaaa gcaaaagaat aaagaatata tacaaaaggg acctggaatc 180
tgtaagctga ttccaaaaac gaaataagta gaaaatccat ggtgaaacct gaacattcta 240
cctctgcttt ggagaagggc tatcatataca cattcagtcg gctgaagatg gattggtaga 300
ggtgtgtcta tacataaaact tcagtcattt ttgcttgtgc agaatcatcc caatcttccc 360
aagactgaat gggcagtcct gtggctttct tccttttcca tattcccaac aaggctacgt 420
gaagttcaac tcttgatgag ccgcttaca cagcagttcc ttaggagcca acatgacagg 480
tgggtcagat ttccctatga gaaacaaaac tggccacctc cagcaaaata tcaaatggg 540
gtaagtcctt ccttctctct cctcctgatt atatacaaca tatctccttt caagactatt 600
atttccatca tgcttattcc ttccaaatct aaacccttga ggtgatatga aggaaaccaa 660
catcaagaaa aagaaaactc aattcagaaa atgaagaaaa ctggcaggga tacaatacac 720
ccccagagca tcttcaatat cccctgggca cagtncccaa ttcagggaact ggggtacaggc 780
ccataagaat naaataattg ggcagctttg gaataaagcc tcattttttt cccttcaggn 840
gggttaaagg ggccccccaa accaaaaact gggggc 875

```

&lt;210&gt; 354

&lt;211&gt; 705

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 354

```

gacttttcta catcagtttt atttaaaaca canacangta tttctctttc tgtaagggca 60
aatgggttcaa ataatgcgga acacgaaaca ttgactaata caagngcttt aaatatgaaa 120
caaaattatt ttttaaaaaa gcaaaagaat aaagaatata tacaaaaggg acctggaatn 180
tgtaagggtga ttccaaaaac gaaataagta gaaaatccat ggtgaaacct gaacattcta 240
cctctgcttt ggagaagggc tatcatataca cattcagtcg gctgaagatg gattggtaga 300
ggtgtgtcta tacataaaact tcagtcattt ttgcttgtgc agaatcatcc caatcttccc 360
aagactgaat gggcagtcct gtggctttct tccttttcca tattcccaac aaggctacgt 420
gaagttcaac tcttgatgag ccgcttaca cagcagttcc ttaggagcca acatgacagg 480
tgggtcagat ttccctatga gaaacaaaac tggccacctc cagcaaaata tcaaatggg 540
taagnccctc cttcctcttc ctncctgatta tatacnncat atctcctttc aagactatta 600
tttccatcat gcttattcct tccaaatcta aaccttgagg ngatatgaan ggaaaccaca 660
tcaggaaaag gaaactcaat tccgaaatga ngaaaactgg cagggt 705

```

&lt;210&gt; 355

&lt;211&gt; 862

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 355

```

ccatcagtgagagcgagctg agcgccagcg cactgagct gctgcaggac tacatgctga      60
cgctgcgcac caagctgtca tcacaggaga tccagcagtt tgcagcactg ctgcacgagt      120
accgcaatgg ggctctatc cagcagttct gcatcaacct gcggcagctc tacggggaca      180
gccgcaagtt cctgctgctt ggtctgaggc ccttcatccc tgagaaggac agccagcact      240
tcgagaactt cctggagacc attggcgtga aggatggccg cggcatcatc actgacagct      300
ttggcaggca ccggcggggc ctgagcacca catccagttc caccaccaat gggaacaggg      360
ccacgggcag ctctgatgac cggctcggc cctcagaggg ggatgagtgg gaccgcatga      420
tctcggacat cagcagcgac attgagggcg tgggctgcag catggaccag gactcagcat      480
gatggacagt ggatgggggg gcacccacac cttccgcgca gtcgtcatag gccttcccag      540
aaggagctgc ccagacctgc gtgtcagccc ttggtgggtg ccaggganag gcgcccggtg      600
cagatggccc cgggcggccc aggtcctnta ctgtgaagga gcaggagagct gccgaggggac      660
acgagcctca gtgcgggggtg gaaggctctt tgcttgctc accagggnct agccaagccc      720
tgcatgtgtt cccgcctcgg ggaggggccc gccgagcggg caggagagagc cagtcctgtc      780
ggctggggccc ttggacgggt gtcagttttg cacatgatgt tcctattgta actntcagag      840
accttaaaaa gaagtttact gc                                         862

```

&lt;210&gt; 356

&lt;211&gt; 750

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 356

```

ccatcagtgagagcgagctg agcgccagcg cactgagct gctgcaggac tacatgctga      60
cgctgcgcac caagctgtca tcacaggaga tccagcagtt tgcagcactg ctgcacgagt      120
accgcaatgg ggctctatc cagcagttct gcatcaacct gcggcagctc tacggggaca      180
gccgcaagtt cctgctgctt ggtctgaggc ccttcatccc tgagaaggac agccagcact      240
tcgagaactt cctggagacc attggcgtga aggatggccg cggcatcatc actgacagct      300
ttggcaggca ccggcggggc ctgagcacca catccagttc caccaccaat gggaacaggg      360
ccacgggcag ctctgatgac cggctcggc cctcagaggg ggatgagtgg gaccgcatga      420
tctcggacat cagcagcgac attgagggcg tgggctgcag catggaccag gactcagcat      480
gatggacagt ggatgggggg gcacccacac cttccgcgca gtcgtcatag gccttcccag      540
aaggagctgc ccagacctgc gtgtcaacct ttggtggtgg caggagagag cgcccggtgc      600
agatggcccc gggccggccc aagtcctcta ctgtgaagga acaggagagct tgccganga      660
cacgaacctc aatgccgggg ttgaangctc tttggttgt ccaccaaggc ttagccagc      720
ccttgcaatg nggcccgcgt tcggggaagg                                         750

```

&lt;210&gt; 357

&lt;211&gt; 725

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 357

```

gcagtaaaact tctttttaag gtctctgana gttacaatag gaacatcatg tgcaaaactg      60
acagccgtcc aaggggccag ccgacaggac tggctctccc tgcccgctcg gccgggcccct      120
ccccgagcgg ggacacactg cagggcttgg ctganccctg gtggacaagg caaagagcct      180
tccaccccgcc actgaggctc gtgtccctcg gcagctccct gctccttcac agtanaggac      240
ctgggcccgc cggggccatc tgcaccgggc gcctntccct ggccaccacc aagggtgac      300
acgcaggctct gggcagctcc ttctgggaag gcctatgacg actgcgcgga aggtgtgggt      360
gcccccccat cactgtoca tcatgctgag tcttgggtcca tgctgcagcc cagcgcctca      420
atgtcgctgc tgatgtccga natcatgcgg tccactcat cccctctga gggtgccgac      480
cggtcacatcag agctgccgt ggccctgttc ccatggtgg tggaactgga tgtggtgctc      540
agggcccgcc ggtgcctgcc aaagctgtca gtgatgatgc cgcggccatc cttnacgcca      600
atggtctnca ggaagttctc gaantgctgg ctgncccttn tcagggatga anggccttan      660
accaagcagc anggaacttg cgnntntcc ccgaaaanct tgccncaggc tgatgcaaaa      720
acttc                                         725

```

<210> 358  
 <211> 813  
 <212> DNA  
 <213> Homo Sapiens

<400> 358  
 aaggcgacag ctgcccattc cgtcactgtg aagctgcaat aggaaatgaa actgtttgca 60  
 cattatggca agaagggcgc tgttttcgac aggtgtgcag gtttcggcac atggagattg 120  
 ataaaaaacg cagtgaattt ccttggttatt gggaaaatca gccaacagga tgtcaaaaat 180  
 taaactgcgc tttccatcac aatagaggac gatatgttga tggccttttc ctacctcoga 240  
 gcaaaactgt gttgcccact gtgcctgagt caccagaaga ggaagtgaag gctagccaac 300  
 tttcagttca gcagaacaaa ttgtctgtcc agtccaatcc tccccctcag ctgcgaggcg 360  
 ttatgaaagt agaaagtccc gaaaatgttc ctagcccccac gcattccacca gttgtaatta 420  
 atgctgcaga tgatgatgaa gatgatgatg atcagttttc tgaggaaggt gatgaaacca 480  
 aaacacctac cctgcaacca actcctgaag ttcacaatgg attacgagtg acttctgtcc 540  
 ggaaacctgc agtcaatata aagcaagggtg aatgtttgaa ttttggaata aaaactcttg 600  
 aggaaattaa gtcaaagaaa atgaaggaaa aatctaagaa gcaagggtgag ggttcttcag 660  
 gagtttccag tcttttactt cacccttgag ccccgntcca ngctctgaaa aagaaaatgt 720  
 caaggactgt ggtgangaca gtactntttt caccaaccaa ggagaagaac ccttggttag 780  
 atgagtctta ctgagagact ggggaaacca aaa 813

<210> 359  
 <211> 756  
 <212> DNA  
 <213> Homo Sapiens

<400> 359  
 cagcagagga gaggcagagg ataaaagagg aagagaaaag ggcagcagag gagaggcaaa 60  
 gggccagggc agaggaggaa gagaaggcta aggtagaaga gcagaaacgt aacaagcagc 120  
 tagaagagaa aaaacgtgcc atgcaagaga caaagataaa aggggaaaag gtagaacaga 180  
 aaatagaagg gaaatgggta aatgaaaaga aagcacaaga agataaaactt cagacagctg 240  
 tcctaaagaa acaggggagaa gagaagggaa cttaaagtga agctaaaaga gaaaagctcc 300  
 aagaagacaa gcctaccttc aaaaaagaag agatcaaaga tgaaaagatt aaaaaggaca 360  
 aagaaccaa agaagaagtt aagagcttca tggatcgaaa gaagggattt acagaagtta 420  
 agtcgcagaa tggagaattc atgaccaca aacttaaca tactgagaat actttcagcc 480  
 gccctggagg gagggccagc gtggacacca aggaggctga gggcgcccc caggtggaag 540  
 cgggcaaaag gctggaggag ctctcgtcgtc gtcgcgggga gaccgagagc cgaagagttc 600  
 gagaagctca aacagaagca gcaggaggcg gctttggagc tggaggaact caaggaaaaa 660  
 ganggaggag agaaggaagg tcctgganga ggaagagcag aggaaggaac aggaggaaa 720  
 ccgatcgga aaccttcaag aggaggaaga agaaga 756

<210> 360  
 <211> 706  
 <212> DNA  
 <213> Homo Sapiens

<400> 360  
 aatttcttcc atgcttttatt ataaagngca naaacaacat gacttctgta tttaaaaaaa 60  
 caaaaactac ggttcatttt tctagatact gcacacattc cgcaggcaat tttaaacttg 120  
 gatcttctgt tgacttcana tngngttggt atcactgtc aaatacagag ttatgatgat 180  
 cagtanaaaa gtctntattt cacagcatgg gtttctttan aaacaggctc ctgngcaaa 240  
 gcagtacttt taccatgaac atctntanac tgggattatt aaatatagng ataatatata 300  
 tgggtttact gggatattga aaaataaaag ataataaacc caatttagta aatcaacata 360  
 aatacaaaac agagcgaatt agccctntac aactgagctc gtccctgcgtc ttgagcttgg 420  
 gttctttctg gaactgtctc aaaccttagt gggggaagtg accttatcca canattgctt 480

ttcccagagg	ttccgcttgc	tggataccgt	ctcctggnet	caagtcanaa	ggtttgggag	540
caggtgactt	gtttccatct	gggggtttta	gttagccatt	cattgatgcy	gctagaaacc	600
cctaccctta	agccagcagt	ttnccttatt	tggggnggcc	ctgctgcant	ggggggatga	660
aaacncattt	cctttntcca	catactcttg	aaggttgcyg	tacacc		706

&lt;210&gt; 361

&lt;211&gt; 726

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 361

gccatgctac	gcgcgctgag	ccgcctgggc	gcggggaccc	cgtgcaggcc	ccgggcccct	60
ctgntgctgc	cagcgcgcyg	ccgcaagacc	cgccacgacc	cgctggccaa	atccaagatc	120
gagcgagtga	acatgccgcc	cgcggtggac	cctgcggagt	tcttcgtgct	gatggagcgt	180
taccagcact	accgncagac	cgtgcgcgcc	ctcaggatgg	anttcgtgct	cgaggtgcat	240
aggaagggtc	acgaggcccg	agccggngtt	ctggcgganc	gcaaggccct	gaaggacgcc	300
gccgagcacc	gcnagctgat	ggcctggaac	caggcggaga	accggcggct	gnacgagctg	360
cggatagcga	ggctgcggca	ggaggancgg	nagcaggagc	agtgncaggc	gttggagcan	420
gcccgcgaag	ccgaagaggt	gcangcctgg	gcgcagcgca	aggagcgnga	antgctgcag	480
ctgcagnaag	aggtgaaaaa	cttcatcacc	cgagagaacc	tggaggcacg	ggtggaagca	540
gcattggact	cccggaagaa	ctacaactgg	gccatcacca	gagaggggct	ggtggtcagg	600
ccacaacgca	nggacttcta	agggcccgct	aaggacagtg	cccggcaggg	accatgtatg	660
tatcatggcg	gaagagttgc	ccttgactgg	aattaaagca	attggtgttg	cttatgagga	720
aaggtt						726

&lt;210&gt; 362

&lt;211&gt; 747

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 362

gcaggaagga	attccattna	ttggggatgc	attttcacaa	tatatgttna	tnggagcgat	60
ccattatcag	ggaaaagtat	caagggttna	taaaattttt	aggaanggca	nattcacaga	120
acatgctagt	cagctngcag	ttttacctcg	taaagatanc	aganaattat	agncaaacca	180
gtaaacangg	aattnacttt	tcaaaagatt	aaatccaaac	tgancaaaat	tntaccctaa	240
aacttactoc	atccaaaatat	tggaaataaaa	gtcagcaggg	atncattctn	ttctgaactt	300
tanattttnt	anaaaaatat	gtaatagnga	tcaggaggag	ctnttgttca	aaagtncaac	360
aaagcaangt	taccttacca	taggccttaa	ttcaaacttt	gatccatttc	actccaanga	420
cgggagtcaa	ngctacctgg	gacacttgta	tttgtaaat	ctgatttagc	ttatngtaaa	480
cttgggccta	ctttgncatg	agggtttgac	ttcngcattn	ttcggggntt	tccttccttt	540
ggcttagggt	tgctaaagct	agaanattca	attgctcttt	acagacttat	gaggaanata	600
gactttgtaa	cgcanatgtc	acttttaatg	ccagccctgc	cctggtttagc	ncttctggag	660
gaatactgca	gataagaaaa	atagttattt	gggaggctcc	ctcagngggg	tanggaattg	720
gggactaacc	ncaattttng	gttaaag				747

&lt;210&gt; 363

&lt;211&gt; 1227

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 363

gtgaagacc	tgagtccgtt	tatttgccgg	taggagcagg	ctccaacatt	ttgtctccat	60
caaacgttga	ctgggaagta	gaaacagata	attctgattt	accagcaggt	ggagacatag	120
gaccaccaa	tggtgccagc	aaggaaatac	cagaattgga	agaagaaaaa	acaattccta	180
ccaaagagcc	tgagcagata	aaatcagaat	acaaggaaga	aagatgcaca	gagaagaatg	240

aagatcgta	tgcactacac	atggattaca	tacttgtaaa	ccgtgaagaa	aattcacact	300
caaagccaga	gacctgtgaa	gaaagagaaa	gcatagctga	attagaattg	tatgtagggt	360
caaagaaac	agggctgcag	ggaactcagt	tagcaagctt	cccagacaca	tgtagccag	420
cctccttaaa	tgaagaaaa	ggtctctctg	cagagaaaat	gtcttctaaa	ggcgatacga	480
gatcatcttt	tgaagccct	gcacaagacc	agagttggat	gttcttgggc	catagtggag	540
ttggtgatcc	atcactggat	gccagggact	cagggcctgg	gtggtctggc	aagactgtgg	600
agccgttctc	tgaactcggc	ttggtgagg	gtccccagct	gcagattctg	gaagaaatga	660
agcctctaga	atcttttagca	ctagaggaag	cctctggtcc	agtcagccaa	tcacagaaga	720
gtaagagccg	aggcagggct	ggcccggatg	cagttaccca	tgacagtga	tgggaaatgc	780
tttcaccaca	gcctgttcag	aaaaacatga	tccctgacac	ggaaatggag	gaggagacag	840
agttccttga	gtcgggaacc	aggatatcaa	gaccaaattg	actactgtca	gaggatgtag	900
gaatggacat	cccctttgaa	gagggcgtgc	tgagtcctcg	tgctgcagac	atgaggcctg	960
aacctcctaa	ttctctggat	cttaatgaca	ctcatcctcg	gagaatcaag	ctcacagccc	1020
caaatatcaa	tctttctctg	gaccaaagtg	aaggatctat	tctctctgat	gataactttg	1080
gacagtccag	atgaaattga	catcaatgtg	gatgaacttg	ataccccga	tgaagcagat	1140
tcttttgagt	accctggccc	atgaagaatc	ccacagccac	aaagattctg	gccaagaag	1200
tcagagtcta	tttcnggaat	ataccgg				1227

&lt;210&gt; 364

&lt;211&gt; 831

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 364

ctgacatcta	caccgaggtc	cgcgagctgg	tgagcctcaa	gcaggagcag	caggctttca	60
aggaggcggc	ccgacacgga	gcggctcgcc	ctgcaggccc	tcacggagaa	gcttctcagg	120
tctgaggagt	ccgtctcccg	cctcccggag	gagatccgga	gactggagga	agagctccgc	180
cagctgaagt	ccgattccca	cgggccgaag	gaggacggag	gcttcagaca	ctcggaaagg	240
tttgaggcac	tccagcaaaa	gagtcaggga	ctggactcca	ggctccagca	cgtggaggat	300
ggggtgctct	ccatgcagg	ggcttctg	cgccagaccg	agagcctgga	gtccctcctg	360
tccaagagcc	aggagcacga	gcagcgccg	gccgcctgc	aggggcgcct	ggaaggcctc	420
gggtcctcag	aggcagacca	ggatggcctg	gccagcacg	tgaggagcct	ggcgagagacc	480
cagctggtgc	tctacggtga	cgtggaggag	ctgaagagga	gtgtgggcga	gtccccagc	540
acccgtggaa	tactccaga	aggtgcagga	acaggtgcac	acgtgtctca	gtcaggacca	600
agcccaggcc	cgccgtctgc	cttctcagga	ctttctggac	agactttctt	ctctagacaa	660
cctgaaagcc	tcagttaggc	cagtggaaag	cggacttgaa	aatgtctcaag	aactgctgtg	720
gacaagttgg	gtgcataact	cggtaaaaat	tagaaaccaa	cgagnacaat	tttggaatca	780
agcccanggt	tactagatga	ccttggggaa	tgatcnggat	aggttgtttg	t	831

&lt;210&gt; 365

&lt;211&gt; 785

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 365

acttgaatc	tgccagccag	acaggatttc	tgaggttaat	ctgcttctgt	taatcctcaa	60
tttaagcctt	tatcattttt	ctctgactag	agacatccat	gaaaagccac	ctgttattca	120
caggggctgc	gcttcaggaa	accaaccaaa	tgcaagca	gagaacttaa	atattgtaaa	180
taagttaact	gggcatgaaa	atacaatgcc	ttggtgttca	ggtggtgaca	actgctcttt	240
aagaggggac	aagaaattgg	gggtagggg	acacatggga	aaaaaccaca	catttttttg	300
tcattgagaaa	ttggacttta	aatccgcgcc	ctgcacacgc	aattcattta	gacctttctg	360
tgaatcttct	ccactttcac	aaacaaccta	tccagatcat	tcctcaggtc	atctagttaa	420
cccttggctg	attccagatt	gttctcggtg	gtttctatct	tgaccgagta	tgcaaccaa	480
ctgtccacag	cagtcctgag	cattttcaag	tccgcctcca	cttggctgac	tgaggctttc	540
aggttgtcta	gagaagaaag	tctgtccagg	aagtcctgag	gaggcagacg	ggcggcctgg	600

gcttggctcct	gactgagcag	cgtgtgcacc	tgtctctgcc	ctttctggga	gtgattccac	660
ggtgctgggg	agctngccca	cacttctctt	tcagcttctt	ccacgtcacc	cgtaaaagca	720
cccagctggg	tctcgnccaa	gcttentacc	gtgctggggc	aggcccatcc	tggntctggct	780
tttga						785

&lt;210&gt; 366

&lt;211&gt; 816

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 366

gtcagccagc	ctccttaaat	gaaagaaaag	gtctctctgc	agagaaaatg	tcttctaag	60
gcgatacgag	atcatctttt	gaaagccctg	cacaagacca	gagttggatg	ttcttgggcc	120
atagtggagt	tggtgatcca	tcactggatg	ccagggactc	agggcctggg	tggtctggca	180
agactgtgga	gccgttctct	gaactcggct	tggttgaggg	tcccagctg	cagattctgg	240
aagaaatgaa	gcctctagaa	tcttttagcac	tagaggaagc	ctctgggtcca	gtcagccaat	300
cacagaagag	taagagccga	ggcagggctg	gcccggatgc	agttacccat	gacagtgaat	360
gggaaatgct	ttcaccacag	cctgttcaga	aaaacatgat	ccctgacacg	gaaatggagg	420
aggagacaga	gttccttgag	ctcggaacca	ggatatcaag	accaaattgga	ctactgtcag	480
aggatgtagg	aatggacatc	ccctttgaag	agggcgtgct	gagtcaccag	gctgcagaca	540
tgaggcctga	acctcctaata	tctctggatc	ttaatgacac	tcctcctcgg	agaatcaagc	600
tcacagcccc	aaatatcaat	cttctctctg	accaaagtga	aggatctatt	ctctctgatg	660
ataacttttg	acagtccaga	tgaattgac	atcaatgtgg	atgaacttga	tacccccgat	720
gaagcagatt	cttttgagta	ccctggccca	tgaagaatcc	cacagccaca	aagattctgg	780
cccaagaagt	cagagtctat	ttcnggaata	taccgg			816

&lt;210&gt; 367

&lt;211&gt; 803

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 367

aaaagaacca	tggaagtctt	cctgaacagg	tagtgaggcc	aaaagttaga	aaactgataa	60
gttcaagcca	ggtggaccaa	gaaacagggt	ttaataggca	tgaggcgaaa	caaagaagtg	120
ttcaaagatg	gagagaggct	ttggaagttg	aggaaagtgg	ctcagatgac	ctcttaataa	180
aatgtgaaga	atatgatgga	gagcatgact	gtatgttctt	ggatccacca	tactcaagag	240
ttattacaca	aagggaacaa	gaaaaataacc	aatgacatc	agaaagtgga	gccacagcag	300
gaaggcaaga	agtggataac	accttttgga	atggctgtgg	agattattac	caactctatg	360
acaaagatga	agatagtctt	gaatgcagtg	atgggggaatg	gtctgcttct	ttgcctcatc	420
gattttctgg	tacagaaaaa	gatcaatcct	caagtgatga	aagctgggag	actctgccag	480
gaaaagatga	gaatgaacct	gagctacaaa	gtgatagcag	tggccctgaa	gaagaaaacc	540
aagaattatc	tcttcaggaa	ggggaacaga	catccttgga	agagggagaa	attccttggt	600
tacagtacaa	tgaagtcaat	gaaagcagca	gtgatgaagg	gaaatgaacc	tgccaatgaa	660
tttgcacagc	cagctttcat	gttggatggt	aacaataacc	tggangatga	cttccgtgtg	720
aagtgaagac	ttagatgtgg	attggagcct	attttgatgg	ctttgcaaat	gggcctagga	780
gttgctggaa	gctttttcat	aag				803

&lt;210&gt; 368

&lt;211&gt; 809

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 368

attagaaatg	accaccgagt	atattctgtt	tattgtttat	gatttacaca	gaaaatgatg	60
ggctgggggt	atagaacaat	aaaccaacca	ttacatttag	acctgggctt	ttgaaaaact	120

tgcattccat	tttaacaatt	cgtatgtatc	taacaaatac	ataaatccag	atcacaaata	180
atcttaagag	ttaaacaatt	aagaaacaca	aagaatacca	catagatcta	cctttaaata	240
tcagcattca	tattataaga	aataagaaaa	tgttaaaaaa	ataaaattag	gttaagtcac	300
aacataaaat	agagaaataa	gataaatgct	atthttattaa	tattcatact	tattttcta	360
ttaccttcat	atagtcttaa	ctttttcaaa	aggatccaag	atatgatcaa	ataatatttt	420
agtatctgaa	cttgccagcc	ttagcttata	ccagagcttg	ttaccatgaa	aatcctaaaa	480
cctcaatttt	ctttttcttt	tttaaaattt	aagccaactc	ttattcaact	tttcttcttc	540
acagcagctg	tttatagata	gtagggagcc	aagaatgaag	gacagtaaca	gatggaaagc	600
aaaaagtaca	acagctatct	taagttcagc	tctcaacatt	gctgggtgag	tttggaaacc	660
aaaaccctct	taacaactgg	cagataatag	cttaaatctt	tacaggccaa	ggaagaaata	720
ttttcttttg	ggacagctgn	tatctagaag	aaaaccang	ggccctttta	tataggccta	780
aatattaan	ggnggcttt	aattttagg				809

&lt;210&gt; 369

&lt;211&gt; 826

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 369

gtgaagacc	tgagtcggt	tatttgccgg	taggagcagg	ctccaacatt	ttgtctccat	60
caaacgttga	ctgggaagta	gaaacagata	attctgattt	accagcaggt	ggagacatag	120
gaccaccaaa	tggtgccagc	aaggaaatac	cagaattgga	agaagaaaaa	acaattccta	180
ccaaagagcc	tgagcagata	aatcagaat	acaagggaaga	aagatgcaca	gagaagaatg	240
aagatcgta	tgactacac	atggattaca	tacttgtaaa	ccgtgaagaa	aattcacact	300
caaagccaga	gacctgtgaa	gaaagagaaa	gcatagctga	attagaattg	tatgtaggtt	360
ccaaagaaac	agggtgagc	ggaactcagt	tagcaagctt	cccagacaca	tgtcagccag	420
cctccttaaa	tgaagaaaaa	ggtctctctg	cagagaaaaat	gtcttctaaa	ggcgatacga	480
gatcatcttt	tgaagccct	gcacaagacc	agagttggat	gttcttgggc	catagtgagg	540
ttggtgatcc	atcactggat	gccagggact	cagggcctgg	gtggtctggc	aagactgtgg	600
agcgttctc	tgaactcggc	ttgggtgagg	gtccccagct	gcagattctg	gaagaaatga	660
acctctagaa	cttttagcac	tagangaagc	ctntggtcca	gtcagcccat	cacaggaaga	720
gttagaacc	gaggcanggc	tgggcccga	tgcagtaccc	cntgacagtg	gaatgggnaa	780
tgcttttanc	cacagcctgt	tcagaaaaac	atgatccttg	ccccgg		826

&lt;210&gt; 370

&lt;211&gt; 783

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 370

gcagaatcaa	tttttatttc	tgaattatac	agtgaggcta	tatagatata	ttgtgtcatt	60
aaagactttt	atattattaa	tctacattat	ggagaattta	tttaccaaaa	cgaagtctaa	120
cagacacttt	attctgagca	atccaatgca	tgatagaaaa	accttttagat	atataaaaga	180
ttaattttgtg	cacatctaaa	tgthttctaag	ggaacaaact	actgaggcat	tgtgataaga	240
cgagagttgc	aaacatagta	ccataactga	atatttaaaa	ttacatctta	acaaaggcta	300
ggagtagtga	cttcttcaca	cacctcagag	aatgtcttag	agagtaacct	catagaacat	360
tgtatggctt	caacagaaac	ttcaggattt	tcttccacac	tgagctactg	ccctcaaaaca	420
aacttttctca	ctccttgaca	ctatcttctg	tgcaaatthc	tgthtttct	cttaaatcaag	480
gagctttgag	aaacaatgct	tttgccccaa	tgacccttg	gttcccttaa	ctacagatct	540
ataggagaaa	tgcaaaagcag	ttcccagaag	tcagaaccaa	agcaagaatg	ttcagagtgc	600
aagagctaga	gagctaaatc	atgtgaatgg	ttacctctgn	ctacctatct	gcttanggat	660
tatttttcta	nggattcatc	taggattcta	tttaccttg	gggtgaaatg	gacatggtag	720
cttttcttca	gccccatgcc	aattaaaatt	naatttgggc	ntttaaagaa	taattaaaat	780
tgc						783

<210> 371  
 <211> 793  
 <212> DNA  
 <213> Homo Sapiens

<400> 371  
 ccacactgca ggatctgtct tcttctaaag aaccttctaa ttccctaaac ttacctcaca 60  
 gtaatgagct gtgttcatcc cttgtgcatc ccgaattgag tgagggtcagt tctaacggtg 120  
 caccaagcat ccctccagta atgtcaagac ctggttagctc ttccctccatt tccactccct 180  
 tgcccccaaa tcaaataact gtatttgtca cttccaatcc catcacaact tcagctaaca 240  
 catcagcagc tttgccaaact cacttgcagt ctgcattgat gtcaacagtt gtcacaatgc 300  
 ccaatgcggg tagcaaggtt atggtttctg agggacagtc agctgctcag tctaattgcc 360  
 ggctcagtt cattacacct gtctttatca attcatcctc aataattcag gtatgaaaag 420  
 gatcacagcc aagcaccaatt cctgcagccc cactgacaac caactctggc ctgatgcctc 480  
 cctctgttgc agttgttggc cctttacaca tacctcagaa cataaaattt tcttctgctc 540  
 ctgtaccgcc taatgccctc tccagtagtc ctgctccaaa catccagaca ggtcgacctt 600  
 tggctcctag ctacagagcc acccctgttc agcttccttc ccttcttgn cgtcttctnc 660  
 agttgccctt ctnatcccct gtgcaacaag tgaaagaatt gaatncagat gangctagcc 720  
 ctnangtgaa caccttaaca gatcagacac tttttccttt tncagtcaac cccaatgggt 780  
 tcttcccttt tga 793

<210> 372  
 <211> 804  
 <212> DNA  
 <213> Homo Sapiens

<400> 372  
 cacattgtac aaatccttag attctcttta ttcactggtc catttctaca acaaatacat 60  
 ccaaaacact atataataaa attatttaca acatttccaa atgagaagat tgcttttgcc 120  
 cccactactg ctattcacac acagtacttc cacggcacaa tacattagga gatctaaaaa 180  
 tgctcaccct gtactctagg ctgcttagga aatgtgaaaa ctagtaacat ttataatggc 240  
 attagctcct ttcaatacaa gacaacattt tagaaacctt gaacttcaac tcgcaacacc 300  
 aaaagggctc aacagtcctg ctttcccat tgcactttat gaaacaggtt gcagggacta 360  
 ggaaaagggc cacattatta aaattactaa ctgtacagaa attgatttaa aaaagtcaca 420  
 gctcaaaatt gctctttgta aaagtcacac acatttccaa gtatcaagtc gcagtcctgc 480  
 ttgtttactt ggattttctt cgcttggatt gcaccgcaat gggtatgtct ttagtagagc 540  
 tggaggctga agcaggtcga gaagatcggt tacgatgtcc attttccaca ctttcagagg 600  
 ccacagttgg ctcttcagtt cgggagtttc ttccggcctgg gatttggact tttcaactat 660  
 ctctttgggc tcaactgctt gtccagagac tatggcagca tttacctcg ctttgggctg 720  
 gcaacagang cctgcaatgc tgnngggtga agttcctttt gagactaaat tctggcgacn 780  
 gggccttgct gggggtaaaag ttct 804

<210> 373  
 <211> 792  
 <212> DNA  
 <213> Homo Sapiens

<400> 373  
 gccggccgcc cgcgccgcc cgcgctgcc cccagctcga ggaggacatc gcggccaagg 60  
 agaagttgct gcgggtgtcg gaggacgagc gggaccgggt gctggaggag ctgcacaagg 120  
 cggaggacag cctcctggcc gccgaagagg ccgcccgcga ggctgaagcc gacgtagctt 180  
 ctctgaacag acgcatccag ctggttgagg aagagttgga tcgtgccag gagcgtctgg 240  
 caacagcttt gcagaagctg gaggaagctg agaaggcagc agatgagagt gagagaggca 300  
 tgaaagtcac tgagagtcga gcccaaaaag atgaagaaaa aatggaaatt caggagatcc 360  
 aactgaaaga ggcaaacgac attgctgaag atgccgaccg caaatatgaa gaggtggccc 420



gtaagctggt	catcattgag	agcgacctgg	aacgtgcaga	ggagcgggct	gagctctcag	480
aaggccaagt	ccgacagctg	gaagaacaat	taagaataat	ggatcagacc	ttgaaagcat	540
taatggctgc	agaggataag	tactcgcaga	aggaagacag	atatgaggaa	gagatcaagg	600
tcctttccga	caagctgaag	gaggctgaga	ctcgggctga	gttttgcgga	aaaggtcagt	660
aactaaantt	ggagaaaaag	catttgatga	cttagaagaa	gaaagtggct	tcatgcccaa	720
agaagaaan	cttatatgca	tcaanatgct	ggatcagact	ttactggagt	taaaccacat	780
gtgaaaaact	tc					792

&lt;210&gt; 374

&lt;211&gt; 745

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 374

agccgataac	agtagaactc	tgaacgtgga	ttccactgca	atgacactac	ctatgtctga	60
tccaactgca	tgggccacag	caatgaataa	tcttggaatg	gcaccgctgg	gaattgccgg	120
acaaccaatt	ttacctgact	ttgatcctgc	tcttggaatg	atgactggaa	ttccaccaat	180
aactccaatg	atgcctgggt	tgggaatagt	acctccacca	attcctccag	atatgccagt	240
agtaaaagag	atcatacact	gtaaaagctg	cacgctcttc	cctccaaatc	caaatctccc	300
acctcctgca	acccgagaaa	gaccaccagg	atgcaaaaca	gtatttgtgg	gtggctctgcc	360
tgaaaatggg	acagagcaaa	tcattgtgga	agttttcgag	cagtgtggag	agatcattgc	420
cattcgcaag	agcaagaaga	acttctgcca	cattcgcttt	gctgaggagt	acatgggtgga	480
caaagccctg	tatctgtctg	gttaccgcat	tcgcctgggc	tctagtactg	acaagaagga	540
cacaggcaga	ctccacgttg	atttcgcaca	ggctcgagat	gacctgtatg	agtgggagtg	600
taaacagcgt	atgctagcca	gagaggagcg	ccatcgtaga	agaatggaag	aagaaagatt	660
gcgtnacca	tnntcaccce	cagtggtcac	tatttagatc	atgaatgcag	cattgggtgct	720
gaaaaataa	aaggaggatt	ccaaa				745

&lt;210&gt; 375

&lt;211&gt; 734

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 375

gaggatataa	aaggaatatt	tatcttttaa	aaatacaact	ttgaacacta	ctggcatctc	60
atttacaag	tattttttgtg	aaatactctc	cattggcttt	gcttgctcag	tacattcttt	120
tatcttcaat	tgagactcaa	gggagggtat	gcttgcatat	ttataaatat	cacaaccacc	180
accacacaca	ataaagacca	tctctgcctc	aggacattcg	ccccaaacct	ccatcctctc	240
tgtttacttt	ccaccaagca	gaagttttctg	aatgggtccac	tcacatgctg	ccattgcgat	300
ttgccgatgg	gcactaccaa	ggtgtctctg	gcaattcgca	ctccagggtg	agctgacctc	360
ttttagataa	gcctcacaaa	ccctagctca	ttatttatcc	attgattcat	tactattaat	420
acttatatca	agtcttttgc	aacattcagc	atgaagttaa	catagtattt	acagcagtag	480
tcggttttgc	attcaacaca	ctgacaacag	aagcaaagg	accaacagac	tgtaagaagg	540
ccagagggga	aagaatatta	atataaatcc	cttctgccac	tgtgtgccgt	gccgtgtgtg	600
tgtttgtgct	tgtgtgcccc	cacatgagca	tatttttaatt	cacagaaaaa	ctgaaacatg	660
ccctccttta	aaagcagact	atttacaagt	gattctgaat	agcatgaaca	catgccagnc	720
atactggaaa	cttg					734

&lt;210&gt; 376

&lt;211&gt; 822

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 376

ggctgatcag	tggtctagaa	cagatcagac	atthtgaat	gatgcctgaa	ataaacacta	60
------------	------------	------------	-----------	------------	------------	----

```

accacctcga caagcaacag gttcaactcc tggcagagat gtgtatcctt attgatgaaa 120
atgacaataa aattggagct gagaccaaga agaattgtca cctgaacgag aacattgaga 180
aaggattatt gcatcgagct tttagtgtct tcttattcaa caccgaaaat aagcttctgc 240
tacagcaaa atcagatgct aagattacct ttccagggtg ttttacgaat acgtgttgta 300
gtcatccatt aagcaatcca gccgagcttg aggaaagtga cgcccttgga gtgaggcgag 360
cagcacagag acggctgaaa gctgagctag gaattccctt ggaagagggt cctccagaag 420
aaattaatta tttaacacga attcactaca aagctcagtc tgatgggtatc tgggggtgaac 480
atgaaattga ttacattttg ttgggtgagga agaattgtaac tttgaatcca gatcccaatg 540
agattaaaag ctattgttat gtgtcaaagg aagaactaaa agaacttctg aaaaaagcag 600
cccagtgggt aaattaagat aacgccatgg tttaaaatta ttgcagcgac ttttctcttt 660
aaatgggtgg ataacttaa tcatttgaat caagtttggg gacccatgag aaaatatacn 720
gaatggggaa tatgtaggta aatggattac ccgaaaaaan ttatctgntt aacaaactta 780
gaaaggcttt ttncctttta aattaaagttc tatcattaaa tt 822

```

&lt;210&gt; 377

&lt;211&gt; 812

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 377

```

gcaagaaata aattttttatt tttcttcatt atcatacagc atttaagaat aataaatctg 60
tcttgagggt tcaaatctga gatattctatg gcaagtttat aaaaagtaca ttgatcaagg 120
tacaattttt aacattaata tacacattcc ataattctcat ctatttaaca ttaacacagg 180
cctttgttgt tgttattttt ttctccctac aatatttcct gactctgtag gacagtggtc 240
ctcagttggg ggttgactct gtcccctagg ggcattctggc aacatccggc ataactgtgg 300
gtgtcacatg agagggacgc tgctcaccat cctgcaatgc acagcacaga cccaccaca 360
ggggttttat ccagcccaaa tgtcaacagt gtcaagttta agcaactctt accgagtggg 420
actcaattcc cattttatga acacctctgt gctcactgta attctgaaaa cacagacttt 480
gctaactggg aaatactatt tacaagaaga ttcaacctaa tcaatatcac ttatcaaaag 540
cagtggctga ctgtaagtat caacatgttt ccagaatgaa taaaccacac aatcaactca 600
gaatgataca aattagggtc catatcattt aatttccctt gaacctgctc tgctaggtta 660
atctgcta atgaaaagttt attaaagactg gttttgaaag accgaggaca atagtttctt 720
ttgcacaatt ttctgaacta tgagaaaaat ttaaaggatc cntaaagcnc ctggcaaaaa 780
gccaaaggcc tttgcaaagg gcttccggaa aa 812

```

&lt;210&gt; 378

&lt;211&gt; 870

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 378

```

aaaatttaag ccaactctta ttcaactttt cttcttcaca gcagctgttt atagatagta 60
gggagccaag aatgaaggac agtaacagat ggaaagcaaa aagtacaaca gctatcttaa 120
gttcagctct caacattgct ggttgagttt ggaacaaaaa cctcttaaca actggcagat 180
aatagctaaa tcttaacaga caaagaagaa atattttctt tgggacagct gctatctaga 240
agaaaaccaa ggtcccttaa tatagtctaa atataatgtg tggcttatta tagagaaatc 300
tttagcaacy taagttaaac cagtaagtgt cacaactgat caacagtact taaaaggaaa 360
caaacaaaaa tcacactagc cacaaatttc caccatatac acatgaaatt aattttaatc 420
tgttttgact ccttgacact aactgatcat taatgaaata tgatatggaa agatcacaga 480
gtagaaaaca agcaaagatt agtttatata acagtgacta tatacatcag agggaaaaca 540
tgctagctaa tgcaacatta aggcctgaat gtaagcattt cccaagtcac agaagcccca 600
aagaactcct aaattacaaa ttcattcacat tacatgcatg caatggtcac ttttggttta 660
cccataaaag gatacncagt attttgctgn aaataccagg accacattta caatatatgc 720
aaaaaattag aatgcagngg taagntcctt anatttaagc cctcatatgn gncaacaggg 780
gaaaattcca tttattttta agaaaggaaa aanggagacn ggatataaaa tactcggaga 840

```

aattccccga attaagaagn aacctctgca

870

&lt;210&gt; 379

&lt;211&gt; 837

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 379

gaggagaggt	caaccgtcgt	agcgccaata	acttctactc	catgatccag	tccggccaaca	60
gccatgtccg	ccgcctgggtg	aacgagaaaag	ctgcccattga	gaaagatatg	gaagaagcaa	120
aggagaagtt	caagcaggcc	ctttctggaa	ttctcattca	atttgagcag	atagtggctg	180
tgtaccattc	cgctccaag	cagaaggcat	gggaccactt	cacaaaagcc	cagcgggaaga	240
acatcagcgt	gtgggtgcaa	caagctgagg	aaattcgcaa	cattcataat	gatgaattaa	300
tgggaatcag	gcgagaagaa	gaaatggaaa	tgtctgatga	tgaaatagaa	gaaatgacag	360
aaacaaaaga	aactgaggaa	tcagccttag	tatcacaggc	agaagctctg	aaggaaagaa	420
atgacagcct	ccgttggcag	ctcgatgcct	accggaatga	agtagaactg	ctcaagcaag	480
aacaaggcaa	agtccacaga	gaagatgacc	ctaacaaaga	acagcagctg	aaactcctgc	540
aacaagccct	gcaaggaatg	caacagcatc	tactcaaaagt	ccaagaggaa	tacaaaaaga	600
aagaagctga	acttgaaaaa	ctcaaatgatg	acaagttaca	ggtggaaaaa	atgttggaaa	660
atcttaaaga	aaaggaaaagc	tgtgcttcta	ngctgtgtgc	ctcaaaccag	gatagcgaat	720
accctnttga	gaaagaccat	gaacagcagt	cctatcaaaa	tcttgaaccg	tgaagcactg	780
gttagtgagg	gattatcttc	cacanttcoct	tcatggtcac	cccatttga	gccagcc	837

&lt;210&gt; 380

&lt;211&gt; 793

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 380

gttgcttagt	ttcaggagtt	ctctacatat	tctggatatt	aattccctttt	catatatatg	60
atttgcaaat	attttctccc	attctgtggg	gtttttttac	tttggtgata	ttgtcttttg	120
agacacaatt	ttttttaatt	ttcatgaagt	ccaatttgtc	tatttttttt	cttttggtgc	180
ctattttgtg	tcattctcaa	gaaaccatta	ccaaatccag	tgttttgaag	ctttcccat	240
atgttttatt	ctaagagcct	tatggtttta	ggccttacat	ttaggccttt	gatccatttt	300
gagttaattt	ttgtatatgg	tgtaggtaa	ggacccaact	tccttggttg	gcatgtggat	360
atccaatttt	cctaccacca	tttgtttgaa	aagattgtcc	tttcccat	gaatggtctt	420
ggtagccttg	tcaaaagtca	actgatcata	catcttattt	atttccggcc	tccctaattc	480
attctatcag	actatatgtc	tgtctttatg	ccagtaccac	attgttttga	ttactgttag	540
tccatcttta	ttatataaaa	tcattgattac	aagctcatac	tataatatta	tattttatac	600
ttttccaaat	cttccatagc	attgngttct	tcttccacta	aaaagcagac	cgttttagagg	660
tataataagt	agcctgaagt	gggcaagtaa	tgaacaaac	ttgagaatta	cataaccttn	720
cagctataga	gttcataatg	gcccgaagg	gtaaagactg	caggncgctt	aattncagg	780
cttttcacca	ggc					793

&lt;210&gt; 381

&lt;211&gt; 807

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 381

agaacaccct	cttagatgtc	ttgttctgtg	tgcccaagta	catgccggaa	tgtggagaag	60
aaatgggttc	tctctagtta	accagattta	ttactaccat	aatgtgaaat	gcagacgtga	120
gatgtttgac	aaggatgtag	taatgcttca	gacaggtgtc	tccatgatgg	atccaaatca	180
tttctgatg	atcatgtc	gccgctttga	actttatcag	attttcagta	ctccagacta	240
tggaaaaaga	tttagttctg	agattaccca	taaggatgtt	gttcagcaga	acaatactct	300

aatagaagaa	atgctatacc	tcattataat	gcttgttgga	gagagattta	gtcctggagt	360
tggaacaggt	aatgctacag	atgaaatcaa	gcgagagatt	atccatcagt	tgagtatcaa	420
gcctatggct	catagtgaat	tggtaaaagtc	tttacctgaa	gatgagaaca	aggagactgg	480
catggagagt	gtaatcgaag	cagttgccca	tttcaagaaa	cctggattaa	caggacgagg	540
catgtatgaa	ctgaaaccag	aatgtgccaa	agagttcaac	ttgnatttct	atcacttttc	600
aagggcagaa	cagtccaagg	cagaagaagc	gcaacggaaa	ttgaaaagac	naaatagaga	660
agatacagca	cttccacctt	ccggggttgn	ctncattctg	gcctctggtt	gcaagcctgg	720
gtaacanttt	gcagtcagat	gtcatggtgn	gcatcatggg	gaaccaattn	tgcaatgggc	780
tgtggaacca	taaanggata	tgcttgg				807

&lt;210&gt; 382

&lt;211&gt; 800

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 382

aagtttaaat	aaagaattta	tttccaaatt	cagcagaact	tctttctttc	ttaaaaagcc	60
aactgggtta	aaaaaatcca	agtgtgtgtt	ttttgggtgt	gcaataattta	taaatgttgc	120
cagtcaatgc	caaccagtgt	ctgattggct	tcctgtgcat	gtccaatttc	ctctgtgaca	180
ctgtgttgg	gccagagctt	ctgaatcttc	ttgaatcgct	ctttgcataa	atgtaaagga	240
tttccccgtc	tgagtcctctg	gtcggctctc	ccatagtcac	caaggtaagg	aggagaataa	300
aaacagcctt	tggttttgcc	agctaaaaat	agcacctgac	attcccgta	tctcaggaag	360
atgcccactc	cagagccaca	ggagtaggtg	tgagctgtgc	aggctcctac	atcctccct	420
tccagttcag	tctggcagca	gtaactctgg	gagcacagca	gagatccgca	cacaaggcac	480
agagttgggg	ctctgctctt	atcaccacct	gatttcgggc	acgagaaatt	ggatgcttga	540
ttaatgaggc	tgctgtaatc	ctctggaagg	tttattaatt	tgtaagatt	ctcttgata	600
tcttatagca	tctcttttca	ccttctagaa	atcttttaac	tttactggt	accggacca	660
acntttcaat	caggaatttc	antatctcac	tattttcttt	gaaaaaggca	aatggagggt	720
ggtttgggta	agggaaagga	aaggcttcn	taaaagggtc	aaaaagggtc	tngttnccag	780
gnaaccttgn	aatgtcgggt					800

&lt;210&gt; 383

&lt;211&gt; 1203

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 383

ctgacatcta	caccgaggtc	cgcgagctgg	tgagcctcaa	gcaggagcag	caggctttca	60
aggaggcggc	ccgacacgga	gcggctcgcc	ctgcaggccc	tcacggagaa	gcttctcagg	120
tctgaggagt	ccgtctccc	cctcccgag	gagatccgga	gactggagga	agagctccgc	180
cagctgaagt	ccgattccca	cgggcccgaag	gaggacggag	gcttcagaca	ctcgaagcc	240
tttgaggcac	tccagcaaaa	gagtcaggga	ctggactcca	ggctccagca	cgtggaggat	300
gggggtgctc	ccatgcagg	ggcttctg	cgccagaccg	agagcctgga	gtccctcctg	360
tccaagagcc	aggagcacga	gcagcgctg	gccgccctgc	aggggcgcct	ggaaggcctc	420
gggtcctcag	aggcagacca	ggatggcctg	gccagcacgg	tgaggagcct	gggcgagacc	480
cagctggtgc	tctacggtga	cgtggaggag	ctgaagagga	gtgtgggcga	gctccccagc	540
accctgggaa	tactccaga	aggtgcagga	gcaggtgcac	acgctgctca	gtcaggacca	600
agcccaggcc	gcctgtctgc	ctcctcagga	cttctggac	agactttctt	ctctagacaa	660
cctgaaagcc	tcagtcagcc	aagtggaggc	ggacttgaaa	atgctcagga	ctgctgtgga	720
cagtttgggt	gcatactcgg	tcaaaataga	aaccaacgag	aacaatctgg	aatcagccaa	780
gggtttacta	gatgacctga	ggaatgatct	ggatagggtg	tttgtgaaag	tggagaagat	840
tcacgaaaag	gtctaaatga	attgcgtgtg	cagggcgccg	atttaaagtc	caatttctca	900
tgacaaaaaa	atgtgtggtt	ttttcccatg	tgtcccctac	cccccaattt	cttgtccct	960
cttaaagagc	agttgtcacc	acctgaacac	caaggcattg	tattttcatg	cccagttaac	1020
ttattttacaa	tatttaagtt	ctctgcttct	gcatttgggt	ggtttctctga	agcgcagccc	1080

ctgtgaataa	caggtggctt	ttcatggatg	tctctagtca	gagaaaaatg	ataaaggctt	1140
aaattgagga	ttaacagaag	cagattaacc	tcagaaatcc	tgtctggctg	gcagatttca	1200
agt						1203

&lt;210&gt; 384

&lt;211&gt; 2651

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 384

cctggctgca	gagtacccca	ccagcgcggt	tcatagtggc	gtcatgcacg	cagactcctg	60
caagttcccc	taagttctta	gaggactgct	ttgccttttg	atctgagagt	tgcaaaagttc	120
cataaagaat	ggcccttggtg	gataagcaca	aagtcaagag	acagcgattg	gacagaattt	180
gtgaaggtat	ccgccccag	atcatgaacg	gccccctgca	cccccgcccc	ctgggtggcgc	240
tgtctggacg	ccgcgactgc	actgtggaga	tgcccatcct	gaaggacctg	gccactgtgg	300
ccttctgtga	cgcgagtcg	acgcaggaaa	tccacgagaa	ggttctaaac	gaagccgtgg	360
gcgccatgat	gtaccacacc	atcacctca	ccagggagga	cctggagaag	ttcaaggccc	420
tgagagtgat	cgtgcggata	ggcagtggct	atgacaacgt	ggacatcaag	gctgcccggc	480
agctcggaa	tgccgtgtgc	aacatcccgt	ctgcagccgt	ggaagagaca	gcggactcta	540
ccatctgcca	catcctcaac	ctgtaccgga	ggaacacgtg	gctgtaccag	gcactgcggg	600
aaggcacgcg	ggttcagagc	gtggagcaga	tccgcgaggt	ggcctcgga	gcggcccgcga	660
tccgtgggga	gacgctgggc	ctcattggct	ttggtcgcac	ggggcaggcg	gttgacgttc	720
gagccaaggc	ctttggattc	agcgtcatat	tttatgaccc	ctacttgacg	gatgggacg	780
agcggctcct	gggctgtcag	agggctctaca	cctgcagga	tttgctgtat	cagagcgact	840
gcgtctcctt	gcactgcaat	ctcaacgaac	ataaccacca	cctcatcaat	gactttacca	900
taaagcagat	gaggcaggga	gcattccttg	tgaacgcagc	ccgtggcggc	ctgggtggacg	960
agaaagcctt	agcacaagcc	ctcaaggagg	gcaggatacg	aggggcagcc	ctcgactgtc	1020
atgagtcaga	gccctttagc	tttgctcagg	gtccgttgaa	agatgcaccg	aatcttatct	1080
gcactcctca	cactgcctgg	tacagcaagc	aggcgtcact	ggagatgagg	gaggcagctg	1140
ccactgagat	ccgcgagcc	atcacaggtc	acatcccaga	aagcttaaga	aactgtgtga	1200
acaaggaatt	atctgtcaca	tcagcgcctt	ggtcagtaat	agaccagcaa	gcaattcatc	1260
ctgagctcaa	tggtgccaca	tacagatata	cgcagggcat	cgtgggcgtg	gctccaggag	1320
gacttctctc	agccatggaa	gggatcatcc	cctgnaaggc	atcccagtga	ctcacaaacc	1380
tcccgacagt	ggcacatcct	ttcccaaggg	ccttntccca	accagcccac	aaaacacggg	1440
gccaatcgag	agcaccacca	cgagcaatag	cagagaatgc	cagaaggtaa	tcactcagat	1500
acacttgagg	ccaagagnca	gtgaaaaata	gatgaactaa	gagaaaaaga	atcggtgggt	1560
ctttgttaact	tgattctgga	catatgcata	attgatgttg	cagtgttgaa	actacaagag	1620
ctagaaaact	gaagatgtcg	tctgtcttac	gaagcgttga	aagactagga	tgtgatttat	1680
taacgaccaa	cttctgttat	tgtgtgttaa	gtttttcatc	tgtgcatcaa	atcacaaaaa	1740
gaataaatag	agctttttcc	tttatcagtc	ccttgggcac	agcaggctcct	gaacaccctg	1800
ctctacaatg	ttgcatcaag	agttcaaaca	acaaaataaa	aaatattaag	aggaaatccc	1860
catcctgtga	cttgagtccc	ttaagtctac	aggggctggg	gacctctttt	tgctaataag	1920
aaaatcacat	tactacaaaa	tggggagaaa	actgtttgcc	tgtggtagac	acctgcacgc	1980
ataggattga	agacagtaca	ggctgctgta	cagagaagcg	cctctcacat	ctgaactgca	2040
tactgagcgg	gcaagtcggg	tgtaagttca	gtaaaaccct	ctgatgatgc	aaaaaaaaaa	2100
aaaaagattt	aagtttcaca	agctgtttgt	actcaaatat	atcttctcag	tttcagatcc	2160
tctgtctatt	tattgagtgg	aaagtcttga	gctaaaaggg	ttcaagaaga	ataatgttgc	2220
atctccttat	gtctcaggaa	acacttttta	tggttaactg	tcagattgtc	tatgaacaaa	2280
cccacttttt	tagacattga	ttaaagcttc	ttcacgtgat	atcttatata	agaacacttc	2340
agatgtatta	gatgtgactg	atcttaacaa	atcctattag	atctgtatca	actagttaca	2400
tgttcttatt	atagctcttt	gtgaatcatt	gcctttttgt	ttaaaaagat	ggcctatttt	2460
gagcctttgt	ataggtacat	tcctgttttt	gtgacaaaag	aaaaacttta	aaattgtccc	2520
aaacagaaaa	ataatggcta	tcagaagtat	gttttgtttt	agtgtgagtt	accgttactg	2580
tatttgttta	ttgtaaagg	ggacatttag	cgttcagtcg	agttttcaat	aaaaagtaat	2640
taaaatttgt	t					2651

<210> 385  
 <211> 804  
 <212> DNA  
 <213> Homo Sapiens

<400> 385  
 cctggctgca gaggacccca ccagcgcggt tcatagtggc gtcattgcacg cagactcctg 60  
 caagttcccc taagttctta gaggactgct ttgccttttg atctgagagt tgcaaagtgc 120  
 cataaagaat ggcccttctg gataagcaca aagtcaagag acagcgattg gacagaatctt 180  
 gtgaaggatc ccgccccag atcatgaacg gccccttgca cccccgcccc ctgggtggcg 240  
 tgctggacgg ccgcgactgc actgtggaga tgcccatcct gaaggacctg gccactgtgg 300  
 ccttctgtga cgcgcagtcg acgcaggaaa tccacgagaa ggttctaaac gaagccgtgg 360  
 gcgccatgat gtaccacacc atcacctca ccaggaggga cctggagaag ttcaaggccc 420  
 tgagagtgat cgtgcggata ggcagtggct atgacaacgt ggacatcaag gctgccggcg 480  
 agctcggaat tgccgtgtgc aacatcccgt ctgcagccgt ggaagagaca gcggactcta 540  
 ccatctgcca catcctcaac ctgtaccgga ggaacacgtg gctgtaccag gcactgcggg 600  
 aaggcacgcg ggttcagagc gtggagcaga tcccgcgagg tggcctcggg agcgggcccgc 660  
 atncgtgggg agacgcttgg gcctcattgg ctttgggtccg caccggggca agccggttgc 720  
 agttcgagcc aaggcctttg gattcagcgc atattttatg accctacttt gcanggatgg 780  
 gatcgaaccg gtcccntggc cgtg 804

<210> 386  
 <211> 782  
 <212> DNA  
 <213> Homo Sapiens

<400> 386  
 gcatcatcag agggttttac tgaacttaca accgacttgc ccgctcagta tgcagttcag 60  
 atgtgagagg cgcttctctg tacagcagcc tgtactgtct tcaatccat gcgtgcaggt 120  
 gtctaccaca ggcaaacagt tttctcccca tttttagta atgtgatttt cctatttagca 180  
 aaaagaggc accagcccc gttagacttaa gggactcaag tcacaggatg gggatttcct 240  
 cttaatattt tttattttgt tgtttgaact cttgatgcaa cattgtagag cagggtgttc 300  
 aggacctgct gtgcccagg gactgataaa ggaaaaagct ctattttatc tttttgtgat 360  
 ttgatgcaca gatgaaaaac ttaacacaca ataacagaag ttggtcgtta ataaatcaca 420  
 tcttagtctt tcagcgcttc cgtaagcaga cgacatcttc agttttctag ctctttagt 480  
 ttcaacactg caacatcaat gatgcatatg tccagaatca gttacaaaga ccatccgatt 540  
 ctttttctct tagttcatct atttttcact ggctcttggg cccaagtgtg tctgagtgat 600  
 taccttcttg cattctctgc tattgtctcg tggggtgctc tcgatggccc cgtgggttgn 660  
 gggctggttg ggaanagggc ncttgggaaa ggaagtgcc ctgtccggaa ggntggtgaa 720  
 gtcactggga ngcctccagg gatgannccc tttccatggg ntgcaaggaa agncttcctg 780  
 ga 782

<210> 387  
 <211> 865  
 <212> DNA  
 <213> Homo Sapiens

<400> 387  
 agattancnn cnggagctcg cgcgcctgca ggtcgacact agtggatcca aagctgtatc 60  
 agagcgactg cgtctccttg cactgcaatc tcaacgaaca taaccaccac ctcatcaatg 120  
 actttaccat aaagcagatg aggcaggag cattccttgt gaacgcaccc cgtgggtggc 180  
 tgggtggacga gaaagcctta gcacaagctc tcaaggaggg caggatacga ggggcagccc 240  
 tctatgtgcg tgagtcggag cccttttagct ttgctcaggg tccgttgaaa gatgcaccga 300  
 atcttatctg cactcctcac actgcttgg acagcaagca ggcgtcactg gagatgaggg 360  
 aggcagctgc cactgagatc cgccgagcca tcacaggtca catcccagaa agcttaagaa 420

actgtgtgaa	caaggaatta	tctgtcacat	cagcgccttg	gtcagtaata	gaccagcaag	480
caattcatcc	tgagctcaat	ggtgccacat	acagatatcc	gccaggcatc	gtgggcgtgg	540
ctccaggagg	acttcctgca	gccttggaag	ggatcatccc	tggaggcatc	ccagtgactc	600
acaacctccc	aacagtggca	catccttccc	aggcgccttc	tcccaaccag	cccacaaaac	660
acggggacaa	tcgagagcac	ttcaacgagc	aatagcagag	aatgcccgga	aggtaatcat	720
tcagatacat	ttggggaccna	gagatagtga	aaaatgatga	acttagagaa	aaaggaatat	780
gaaggncctt	ggaactggat	cttggactta	tgcatacttg	atgcttgcaa	gtgggttaaaa	840
ctnccaggag	ctttgaaaac	tgga				865

&lt;210&gt; 388

&lt;211&gt; 753

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 388

gagtataang	gttaaatctt	atttaaaaag	aaagnccatt	aaatcaactt	caagttctta	60
ntcatagga	ctatttngna	ncacttcttt	gnaaatatca	tttngttagg	tnatnggcaa	120
ancagtttca	nggttcactt	ccctcccttg	anccaggnc	aggncatttn	gctttgggg	180
aaattaaaat	canaattcta	aaagttganc	anctttgttt	tttttnaatn	gactnanctn	240
tanccacca	ttacaactta	nggacggcat	gactngataa	nganggactt	gngtgaggtt	300
ttgagtttcc	aattaanctt	tgatcacat	gaggnaatng	ncagcattct	tgagnnggtt	360
tatggaatag	gcagatanaa	ccctgtagta	ccaanagttg	gaaatnggct	aatngacaac	420
gcactngcct	taaacatctc	angtagagaa	cttttacatt	agngagangt	ncttgaattt	480
cananctcac	caaattttta	ttacttttta	tngaaaactg	cagngaangc	taaaggtcta	540
cgtttacaat	aaacaaatcc	agtancagta	actcacactg	aaccaaanca	tacttctgat	600
agccattatt	tttcngcttg	gggacaattt	taaagntttt	cttttgcccc	aaaaaccngg	660
aatgtatccc	aaacnaaggc	tcaaaagagg	cccatcnttt	tcaaacaaaa	aagggcantg	720
gattcncaaa	aanactggng	aatagaaca	tgg			753

&lt;210&gt; 389

&lt;211&gt; 737

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 389

aggaaatcca	cgagaagggt	ctaaacgaag	ccgtgggccc	catgatgtac	cacaccatca	60
ccctcaccag	ggaggacctg	gagaagttca	aggccctgag	agtgatcgtg	cggataggca	120
gtggctatga	caacgtggac	atcaaggctg	ccggcgagct	cggaattgcc	gtgtgcaaca	180
tcccgctctg	agccgtggaa	gagacagcgg	actctaccat	ctgccacatc	ctcaacctgt	240
accggaggaa	cacgtggctg	taccaggcac	tgcggaagg	cacgcgggtt	cagagcgtgg	300
agcagatccg	cgaggtggcc	tcgggagcgg	cccgcacccg	tggggagacg	ctgggcctca	360
ttggctttgg	tcgcacgggg	caggcggttg	cagttcgagc	caaggccttt	ggattcagcg	420
tcataattta	tgacccttac	ttgcaggatg	ggatcgagcg	gtccctgggc	gtgcagaggg	480
tctacacct	gcaggatttg	ctgtatcaga	gcgactgcgt	ctccttgcac	tgcaatctca	540
acgaacataa	ccaccacctc	atcaatgact	ttaccataaa	gcagatgagg	caggagagcat	600
tccttgtaga	cgcagcccg	ggcgccctgg	tggacgagaa	agccttagca	caagccctna	660
agganggcag	gatacnaagg	ggcaancctt	gacgtgcatg	agtcaaaaanc	ctttagcttt	720
tgttaagggt	tccgttg					737

&lt;210&gt; 390

&lt;211&gt; 775

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 390

gcatcatcag	agggttttac	tgaacttaca	accgacttgc	ccgctcagta	tgcagttcag	60
atgtgagagg	cgcttctctg	tacagcagcc	tgtagctgtct	tcaatcctat	gcgtgcagg	120
gtctaccaca	ggcaaacagt	tttctcccca	ttttgtagta	atgtgatttt	cctatttagca	180
aaaagaggtc	accagccctt	gtagacttaa	gggactcaag	tcacaggatg	gggatttcct	240
cttaatat	tttattttgt	tggttgaact	cttgatgcaa	cattgtagag	cagggtgttc	300
aggacctgct	gtgcccaagg	gactgataaa	ggaaaaagct	ctatttat	tttttgtgat	360
ttgatgcaca	gatgaaaaac	ttaacacaca	ataacagaag	ttggtcgtta	ataaatcaca	420
tcctagtctt	tcagcgcttc	cgtaagcaga	cgacatcttc	agttttctag	ctctttagt	480
ttcaacactg	caacatcaat	gatgcata	tccagaatca	agttacaaag	accatccgat	540
tctttttctc	ttagttcatc	tatttttcac	tgntctctgg	tcccaagtgt	atctgagtga	600
ttaccttctg	gcattctctg	ctattgtctg	ttgggggtgct	ctcgattggc	cccgtgtttt	660
gtgggctggt	tggganaagg	cccttgggaa	aggatgtgcc	actgtcggga	gggttgtgag	720
tcactgggat	gccttnccagg	ggatgatccc	tttcatggct	tggcaggaaa	gtctt	775

&lt;210&gt; 391

&lt;211&gt; 776

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 391

gtggataagc	acaaagtcaa	gagacagcga	ttggacagaa	tttgtgaagg	tatccgcccc	60
cagatcatga	acggccccct	gcacccccgc	cccctggtgg	cgctgctgga	cggccgcgac	120
tgactgtg	agatgccc	cctgaaggac	ctggccactg	tgccctctg	tgacgcgag	180
tcgacgcagg	aaatccacga	gaaggttcta	aacgaagccg	tgggcgccat	gatgtaccac	240
accatcacc	tcaccaggga	ggacctggag	aagttcaagg	ccctgagagt	gacgtgcgg	300
ataggcagtg	gctatgacaa	cgtggacatc	aaggctgccg	gcgagctcgg	aattgccgtg	360
tgcaacatcc	cgtctgcagc	cgtggaagag	acagcggact	ctaccatctg	ccacatcctc	420
aacctgtacc	ggaggaacac	gtggctgtac	caggcactgc	gggaaggcac	gcgggttcag	480
agcgtggagc	agatccgcga	ggtggcctcg	ggagcggccc	gcacccgtgg	ggagacgctg	540
ggcctcattg	gctttggctg	cacggggcaa	gcggttgag	ttcgagccaa	ggcctttgga	600
ttcagcgtca	tattttatga	ccctactctg	caggatggga	tcgagccggg	ccctgggcgt	660
gcagaaggtc	tacaccctgc	aggatttgc	gtatcagaac	cgactgcgtc	ttctttcact	720
tgcaatntta	acgaacataa	ccaccactt	tatcaatgga	cttttcccta	aagcca	776

&lt;210&gt; 392

&lt;211&gt; 909

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 392

aacaaat	aattact	tattgaaaac	tgactgaac	gctaaatgtc	cacctttaca	60
ataaacaaat	acagtaacgg	taactcacac	taaaacaaaa	catacttctg	atagccatta	120
tttttctg	tgggacaatt	ttaaagt	tcttttgtca	caaaaacagg	aatgtacct	180
tacaaaggct	caaaataggc	catcttttta	aacaaaaagg	caatgattca	caaaagact	240
tgaatagaac	atgtaactag	ttgatacaaa	tctaatagga	tttgttaaaa	tcagtcacat	300
ctaatacatc	tgaagtgttc	ttgtataaaa	tatcacgtga	agaagacttt	atcaatgtct	360
aaaaaagtgg	gtttgttcat	agacaatctg	acaagttacc	ataaaaagtg	tttcttgaga	420
cataaggaaa	tgcaacatta	ttcttcttga	acccttttag	ctcaagactt	tccactcaat	480
aaaatagcag	aggatctgaa	actgagaaaa	tatatattgag	tacaaacagc	ttgtgaaact	540
taatactttt	ttttttttt	tgcatcatca	gaggggtttt	ctgaacttac	aaccgacttg	600
ccgctcag	atgcagttca	naagtganag	gcgcttctct	gtacagcaac	ctggactggc	660
ttcaatccta	tgcggtgcagg	tgtctaccca	gggcnaacag	ttttctcccc	attttggtag	720
taatggggat	tttctatta	gccaaaaaag	angtcaccag	nccctgnaga	cttaaaggga	780
cctcaaggtc	nccaggaatg	ggggatttcc	ctcntaaaaa	atttttaatt	ttgggggggt	840
gnaactcttg	gangccacca	tttgtaaaaac	canggggttc	aagaacctgg	ntgggcccc	900



agggacctg

909

&lt;210&gt; 393

&lt;211&gt; 769

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 393

caaatttttaa	ttacttttta	ttgaaaactg	cactgaacgc	taaattgtcca	cctttacaat	60
aaacaaatac	agtaacggta	actcacacta	aaacaaaaca	tacttctgat	agccattatt	120
tttctgtttg	ggacaatttt	aaagtttttc	ttttgtcaca	aaaacaggaa	tgtacctata	180
caaaggctca	aaataggcca	tctttttaaa	caaaaaggca	atgattcaca	aaagactatg	240
aatagaacat	gtaactagtt	gatacaaatc	taataggatt	tgttaaaatc	agtcacatct	300
aatacatctg	aagtgttctt	gtataaaata	tcacgtgaag	aagactttat	caatgtctaa	360
aaaagtgggt	ttgttcatag	acaatctgac	aagttaccat	aaaaagtgtt	tcctgagaca	420
taaggaaatg	caacattatt	cttcttgaac	ccttttagct	caagactttc	cactcaataa	480
aatagcagag	gatctgaaac	tgagaaaata	tatttgagta	caaacagctt	gtgaaactta	540
atactttttt	tttttttttg	catcatcana	gggttttact	gaacttaca	ccgacttgcc	600
cgctcagtat	gccagttcan	atgtgaaagg	cgctttnttg	tcagcagcct	gnactggcct	660
caatcctatg	cgtgcaggng	tttaccaca	ggcaaacagg	ttttctnccc	catttttgga	720
agtaatgggg	attttcctat	tagcaaaaaa	gaaggnccac	aanccctg		769

&lt;210&gt; 394

&lt;211&gt; 813

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 394

ggaagatggc	ggagctgcgc	gtgctcgtag	ctgtcaagag	ggatcatcgac	tacgccgtga	60
agatccgagt	gaagcctgac	aggaccggtg	tggtcacgga	tggtgtgaag	cactccatga	120
accctttctg	tgagatcgcg	gtggaggagg	ctgtgcggct	caaggagaag	aagctggtga	180
aggaggtcat	cgccgtcagc	tgtgggcctg	cacagtgcc	ggagacgatt	cgtaccgccc	240
tggccatggg	tgcagaccga	ggtatccacg	tggagggtgcc	cccagcagaa	gcagaacgct	300
tgggtcccct	gcaggtggct	cgggtccttg	ccaagctggc	agagaaggag	aaggtggacc	360
tggtgctgct	gggcaaacag	gccatcgatg	atgactgtaa	ccagacaggg	cagatgacag	420
ctggatttct	tgactggcca	cagggcacat	tcgcctccca	ggtgacgctg	gagggggaca	480
agttgaaagt	ggagcgggag	atcgatgggg	gcctggagac	cctgcgcctg	aagctgccag	540
ctgtggtgac	agctgacctg	aggctcaacg	agccccgcta	cgccacgctg	cccaacatca	600
tgaagccaa	gaagaagaag	atcgaggtga	tcaagcctgg	ggacctgggt	gtggacctga	660
cctccaagct	ctctgtgatc	agtgtggagg	acccgcccc	gcgcacggcc	ggcgtcaagg	720
tggagaccac	tgaggacctg	gtggccaagc	tgaaggagat	tgggcggatt	tgagcccctc	780
ccagagatgg	caataaaact	gactctcaac	atc			813

&lt;210&gt; 395

&lt;211&gt; 762

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 395

ggaagatggc	ggagctgcgc	gtgctcgtag	ctgtcaagag	ggatcatcgac	tacgccgtga	60
agatccgagt	gaagcctgac	aggaccggtg	tggtcacgga	tggtgtgaag	cactccatga	120
accctttctg	tgagatcgcg	gtggaggagg	ctgtgcggct	caaggagaag	aagctggtga	180
aggaggtcat	cgccgtcagc	tgtgggcctg	cacagtgcc	ggagacgatt	cgtaccgccc	240
tggccatggg	tgcagaccga	ggtatccacg	tggagggtgcc	cccagcagaa	gcagaacgct	300
tgggtcccct	gcaggtggct	cgggtccttg	ccaagctggc	agagaaggag	aaggtggacc	360

tggtgctgct	gggcaaacag	gccatcgatg	atgactgtaa	ccagacaggg	cagatgacag	420
ctggatttct	tgactggcca	cagggcacat	tcgcctccca	ggtgacgctg	gagggggaca	480
agttgaaagt	ggagcgggag	atcgatgggg	gcctggagac	cctgcgcctg	aagctgccag	540
ctgtggtgac	agctgacctg	aggctnaacg	agcccccgct	acgccacgct	tgccaacatc	600
atgaaagcca	agaagaagaa	gatcgangtg	atcaacctgg	gganctgggt	gtggacctga	660
ctccagcttt	tttngatca	gtgtgganga	ccggcccacg	cacgggcgct	tcaangtgga	720
gacctgagg	acctggtggn	caactnaaag	aaaatgggag	ga		762

&lt;210&gt; 396

&lt;211&gt; 822

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 396

gagagtca	gttattgcca	tctntgggag	gggctcaaat	ccgccaatc	tccttcagct	60
tgccaccag	gtcctcagng	gtctccacct	tgacgccggc	cgtgcgctgg	ggcgggtcct	120
ccacactgat	cacagagagc	ttggagggtca	ggtccacacc	caggtcccca	ggcttgatca	180
cctcgatctt	cttctctctt	gctttcatga	tggtgggcag	cgtggcgtag	cggggctcgt	240
tgagcctcag	gtcagctgtc	accacagctg	gcagcttcag	gcgcaagggtc	tccaggcccc	300
catcgatctc	ccgctccact	ttcaacttgt	ccccctccag	cgtcacctgg	gaggcgaatg	360
tgccctgtgg	ccagtcaaga	aatccagctg	tcactctgcc	tgtctggtta	cagtcacatc	420
cgatggcctg	tttggccagc	agcaccaggt	ccaccttctc	cttctctgcc	agcttggtca	480
ggaccgcagc	cacctgcagg	ggacccaagc	gttctgcttc	tgctgggggc	acctccacgt	540
ggatacctcg	gtctgcaccc	atggccaggg	cgggtaccaat	cgtctcctgg	cactgtgcag	600
gcccacagnt	gacggcgatg	accttccttc	accaagcttt	tttctccttt	gagccggaca	660
ggcctcttca	acgggatctt	caccanaaag	gggttcatgg	gagngcttaa	aaccatccgn	720
gaacccaccg	gnccttgtna	ggctttactt	cggatctttt	acnggggaat	cgatgacccn	780
ttttgacagg	tacgaacccc	cgcagnttc	ggcattttcc	tt		822

&lt;210&gt; 397

&lt;211&gt; 812

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 397

gatgttgaga	gtcagtttta	ttgccatctc	tgggaggggc	tcaaatccgc	ccaatctcct	60
tcagcttggc	caccagggtcc	tcagtgggtct	ccaccttgac	gccggccgctg	cgctggggcg	120
ggctcctccac	actgatcaca	gagagcttgg	aggtcagggtc	cacaccacag	tccccaggct	180
tgatcacctc	gatcttcttc	ttcttggctt	tcagtatgtt	gggcagcgctg	gcgtagcggg	240
gctcgttgag	cctcaggtca	gctgtcacca	cagctggcag	cttcaggcgc	aggggtctcca	300
ggcccccatc	gatctccgc	tcacttttca	acttgtcccc	ctccagcgctc	acctgggag	360
cgaatgtgcc	ctgtggccag	tcaagaaatc	cagctgtcat	ctgccctgtc	tggttacagt	420
catcatcgat	ggcctgtttg	cccagcagca	ccagggtccac	cttctccttc	tctgccagct	480
tggccaggac	ccgagccacc	tgagggggac	ccaagcgctc	tgcttctgct	gggggcacct	540
ccacgtggat	acctcggtct	gcacccatgg	ccaggggcggt	acgaatcgctc	tcctggcact	600
gtgcaggccc	acaagctgac	gggcgatgaa	cctccttcac	cagcttcttc	tccttgagcc	660
cgcacagcct	tcttcaccgc	gatctcacag	gaaggggttc	atggagtgtc	tacaaccatc	720
cggngaccac	accgggccct	gtcaggcttt	aaactcgant	ctttacgggg	taatcgnntg	780
gacctttttg	acaagctacc	aagcaccctg	ca			812

&lt;210&gt; 398

&lt;211&gt; 751

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 398

gatgttgaga	gtcagtttta	ttgccatctc	tgggaggggc	tcaaataccgc	ccaatctcct	60
ttngcttggc	caccaggtcc	tcagtgggtc	ccaccttgac	gccggccgtg	cgctggggcg	120
ggctcctccac	actgatcaca	gagagcttgg	aggtcaggtc	cacacccagg	tccccaggct	180
tgatcacctc	gatcttcttc	ttcttggctt	tcagtatgtt	gggcagcgtg	gcgtagcggg	240
gctcgttgag	cctcaggtca	gctgtcacca	cagctggcag	cttcaggcgc	agggctctcca	300
ggcccccatc	gatctcccg	tccactttca	acttgtcccc	ctccagcgtc	acctgggagg	360
cgaatgtgcc	ctgtggccag	tcaagaaatc	cagctgtcat	ctgccctgtc	tggttacagt	420
catcatcgat	ggcctgtttg	cccagcagca	ccaggtccac	cttctccttc	tctgccagct	480
tggccaggac	ccgagccacc	tgcaggggac	ccaagcgtnc	tgettctgct	gggggcacct	540
ccacgtggat	acctcggctc	gcacccatgg	ccaggcggtt	acnnaatcgn	ctcctggcac	600
tgctcaggcc	cacaagntga	cggggaatga	cctccttnac	caagcttntt	ntccttgacc	660
cgaaaagctt	cttcaccng	aaactncaga	angggttcaa	tggantgctt	tacacattcg	720
ggaccacccc	cgggccttgt	caggctttaa	t			751

&lt;210&gt; 399

&lt;211&gt; 800

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 399

agatgttgag	agtcagtttt	attgccatct	ctgggagggg	ctcaaataccg	ccaatctcct	60
ttcagcttgg	ccaccaggtc	ctcagtggtc	tccaccttga	cgccggccgt	gcgctggggc	120
gggtcctcca	cactgatcac	agagagcttg	gaggtcaggt	ccacacccag	gtccccaggc	180
ttgatcacct	cgatcttctt	cttcttggct	ttcatgatgt	tgggcagcgt	ggcgtagcgg	240
ggctcgttga	gcctcaggtc	agctgtcacc	acagctggca	gcttcaggcg	cagggtctcc	300
aggcccccat	cgatctcccg	ctccacttcc	aacttgtccc	cctccagcgt	cacctgggag	360
gcgaatgtgc	cctgtggcca	gtcaagaaat	ccagctgtca	tctgccctgt	ctggttacag	420
tcatcatcga	tggcctgttt	gcccagcagc	accaggtcca	ccttctcctt	ctctgccagc	480
ttggccaggga	cccagaccac	ctgcagggga	cccaagcgtt	ctgcttctgc	tgggggcacc	540
ttccacgtgg	atacctcggg	ctgacccatg	gccagggcgg	tacgaatcgt	ctcctggcac	600
tgngcangcc	cacaagctga	cggcgatgac	ctncttnacc	agcttcttct	ncttgagccc	660
ggacaagnct	tcttcaaccg	ggatctcaca	agaaggggtc	atggagtgtc	ttcacaccat	720
tcggggancac	aaccggncct	gncaaggcct	naacttggac	ntttacggng	taatccgatg	780
aacctttttt	gacagntacc					800

&lt;210&gt; 400

&lt;211&gt; 810

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 400

ggaagactga	attgaaagaa	gatagctcta	gcagtgaagc	agaggaagaa	gaggaggagg	60
aagatgatga	aaaagaaaag	gaggataata	gcagtgaaga	agaggaagaa	atagaaccat	120
ttccagaaga	aagggagaa	tttcttcagc	aattgtacaa	atttatggaa	gatagaggta	180
cacctattaa	caaacgacct	gtacttggat	atcgaaatct	gaatctcttt	aagttattca	240
gacttgtaca	caaacttggg	ggatttggata	atattgaaag	tggagctgtt	tggaaacaag	300
tctaccaaga	tcttggaaat	cctgtcttaa	attcagctgc	aggatacaat	gttaaattgtg	360
cttataaaaa	atnctnatnt	ggctntgngg	agtactgtac	atcagccaac	attgaatttc	420
agatggcatt	gccagagaaa	gttggttaaca	agcaatgtaa	ggagtgtgaa	aatgtaaaag	480
aaataaaaag	taaggaggaa	aatgaaaacag	agatcaaaga	aataaagatg	gaggaggaga	540
ggaatataat	accaagagaa	gaaaagccta	ttgaggatga	aattgaaaga	aaagaaaata	600
ttaagccctc	tctgggaagt	aaaaagaatt	tattagaatc	tataacctaca	cattctgatc	660
aggaaaaaga	agttacatta	aaaaaccnga	agacaatgaa	aatctggggc	gaccaagatg	720
atgacncaac	tagggtagat	gaatccctca	accntaaggt	agaactgagg	aagaaaaagc	780

caaatctgga tncnatgaat gggattaagc

810

<210> 401  
 <211> 860  
 <212> DNA  
 <213> Homo Sapiens

&lt;400&gt; 401

```

gggaggcccg cctagccacc ctgaccagcc gtgtagaaga agacagcaac agagattata    60
aaaaactcta tgagagtgct ctgactgaaa accaaaaact gaaaacaaaa cttcaggaag    120
cccagctaga gctagcagat ataaagtcca agcttgagaa ggtggcccg cagaaacaag    180
aaaagacctc tgaccgatca tcagtgtctg agatggagaa acgggagagg cgagccttgg    240
agcgcaaaaat gtcagaaatg gaggaagaaa tgaaggtggt aacagaactg aaatccgaca    300
accagaggct gaaagatgaa aatggtgccc tcatcagagt catcagcaaa ctgtccaagt    360
aggctaggct ccagatttat gaggaagaa agggacagca tttgtgccc ccaccctct    420
tttcagctcc ttgccttcca accaaaagaa atggatgttt tggtggaagg acacttcttt    480
ctatcacctc cttcagtcac ctctatacac tctacathtt ctctgcactt tcaatgccct    540
gttcttccaa acccctatcc caagttttat gacagtttta attgaagcat gattgttgta    600
attcgagcca tctggagaat gctctgggga gtacaccagg ctcagctgtg gaccctcaa    660
cttctgtctg ctcagctact ttgtccacat tggatttggt ccaaacatgt aagactttct    720
accctnatca gtatccttca gctttttaca ttaaccagt gnccttctga tataggtgaa    780
gtccttgngg gtagccactt tcaggatcct ggaatggggg gcccaagaga aacngccagg    840
atggttgaat tggatcattc

```

<210> 402  
 <211> 779  
 <212> DNA  
 <213> Homo Sapiens

&lt;400&gt; 402

```

gagatggagt cttgctctgt caccagggct ggagtgcagt ggctgatca aggctcactg    60
caagctccgc ctcccggtt caccgcatc tcctgctca gcctcccgag tagctgggac    120
tacaggcgcc cgccaccag cctggctaatt tttttgtatt tttagtagag attgggtttc    180
accgtgtag ccaggatggt ctggaactcc tgacctctg atctgtccac ctggcctcc    240
tgaagtgtg ggattacagg catgagccac tgcacctgt ggaattggga tcttgaatta    300
cagcttctag tttaaacagc atgtggtggt tcagagggag gaccatggag agctacatgt    360
catgttagga aagaattaac agacagaggt agtatatatt aagggaatga accactctaa    420
acactgaata tactggcaa ccctaaaatg atgaggattt aatgacttgc acactcaagt    480
gaaccaaggg ataaaactcc tacaaaaaga aaatactgta agtattaatg ctaggttatc    540
atcaaganct aatgggttaa ttttgcactg gatttgnatt cttttccagg cctggacatg    600
atattttaaa ggctggttnt ggctagagga ggatgggcca anatgtgaca gggangaaaa    660
gcatgcctta tgaggaatga cttaaaggga ctagaggtaa cagcagctca aaagtaagaa    720
ctgaggggga aaacccccca ctgnaccata tntnaagggc cgttaaagaa ttgcagaat    779

```

<210> 403  
 <211> 1443  
 <212> DNA  
 <213> Homo Sapiens

&lt;400&gt; 403

```

cttcaggaac tgttaaaaga aaaacaacaa gaagtaaagc agctacagaa ggactgcatc    60
aggatcaag agaaaattag tgctctggag agaactgtta aagctctaga atttgttcaa    120
actgaatctc aaaaagattt ggaaataacc aaagaaaatc tggctcaagc agttgaacac    180
cgcaaaaagg cacaagcaga attagctagc ttcaaagtcc tgctagatga cactcaaagt    240
gaagcagcaa gggctcctagc agacaatctc aagttgaaaa aggaacttca gtcaaataaa    300

```

gaatcagtta	aaagccagat	gaaacaaaag	gatgaagatc	ttgagcgaag	actggaacag	360
gcagaagaga	agcacctgaa	agagaagaag	aatatgcaag	agaaactgga	tgctttgcgc	420
agagaaaaag	tccacttgga	agagacaatt	ggagagattc	aggttacttt	gaacaagaaa	480
gacaagggaag	ttcagcaact	tcaggaaaac	ttggacagta	ctgtgaccca	gcttgagcc	540
tttactaaga	gcatgtcttc	ccttcaggat	gatcgtgaca	gggtgataga	tgaagctaag	600
aaatgggaga	ggaagtttag	tgatgcgatt	caaagcaaag	aagaagaaat	tagactcaaa	660
gaagataatt	gcagtgttct	aaaggatcaa	cttagacaga	tgtccatcca	tatggaagaa	720
ttaaagatta	acatttccag	gcttgaacat	gacaagcaga	tttgggagtc	caaggccag	780
acagaggtcc	agcttcagca	gaaggctctgt	gatactctac	agggggaaaa	caaagaactt	840
ttgtcccagc	tagaagagac	acgccaccta	taccacagtt	ctcagaatga	attagctaag	900
ttggaatcag	aacttaagag	tctcaaagac	cagttgactg	atttaagtaa	ctcttttagaa	960
aaatgtaagg	aacaaaaagg	aaacttgga	gggatcataa	ggcagcaaga	ggctgatatt	1020
caaaattcta	agttcagtta	tgaacaactg	gagactgac	ttcaggccctc	cagagaactg	1080
accagtaggc	tgcatgaaga	aataaatatg	aaagagcaaa	agattataag	cctgctttct	1140
ggcaagggaag	aggcaatcca	agtagctatt	gctgaactgc	gtcagcaaca	tgataaagaa	1200
attaaagagc	tggaaaacct	gctgtgccag	gaggaagagg	agaatattgg	tttagaagag	1260
gagaacaana	angcttgttg	ttaaacccta	atcagcttat	gggaacactt	gaaaaccatc	1320
aaaanggaag	catttagnca	aaaggcncag	ttggattcct	tggtnaaatc	ctgncttctn	1380
ttccaaatgg	atccgagaa	cgcntagtgg	ggggactatt	caccagctgg	gaanagccga	1440
ctt						1443

&lt;210&gt; 404

&lt;211&gt; 819

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 404

gcgattcaaa	gcaaagaaga	agaaattaga	ctcaaagaag	ataattgcag	tggtctaaag	60
gatcaactta	gacagatgtc	catccatatg	gaagaattaa	agattaacat	ttccaggctt	120
gaacatgaca	agcagatttg	ggagtccaag	gcccagacag	agggtccagct	tcagcagaag	180
gtctgtgata	ctctacaggg	ggaaaacaaa	gaacttttgt	cccagctaga	agagacacgc	240
cacctatacc	acagttctca	gaatgaatta	gctaagttgg	aatcagaact	taagagtctc	300
aaagaccagt	tgactgattt	aagtaactct	ttagaaaaat	gtaaggaaca	aaaaggaaac	360
ttggaaggga	tcataaggca	gcaagaggct	gatattcaaa	attctaagtt	cagttatgaa	420
caactggaga	ctgatcttca	ggcctccaga	gaactgacca	gtaggctgca	tgaagaaata	480
aatatgaaag	agcaaaagat	tataagcctg	ctttctggca	aggaagaggc	aatccaagta	540
gctattgctg	aactgcgtca	gcaacatgat	aaagaaatta	aagagctgga	aaacctgctg	600
tnccaggagg	aagaggagaa	tattggttta	gaagaggaga	acaanaangc	ttgtgggttaa	660
aacccaatca	gcttatggga	acacttgaaa	accatcaaaa	nggaaacatt	tagncaaaag	720
gcncagttgg	attccttggg	naaatcctgn	cttctnttcc	aatggatcc	gagaaccgcn	780
tagtgggggg	actattcacc	agctgggaan	agccgactt			819

&lt;210&gt; 405

&lt;211&gt; 761

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 405

ctgaaaataa	ttttattatt	ttacagttgt	tcaggaaact	tcccaggatg	ttgtaaccaa	60
natttaataca	ccacagtana	tttanagcan	atcagtcagc	ccacttgtct	tccctcttct	120
ttaggganag	gctaggcagt	gaacacatca	tgtatgcaat	ganaaaaata	ccaactggta	180
ggatggggga	ggggagggga	ggcagggaat	aggcncaa	ggaattctat	cctggctgtc	240
cttctcaggt	ctatctatat	ttaattttgt	cttctctata	ttctccttcc	attgccacag	300
agggcanaga	caatggggct	gaaaaactgt	aataactgnc	actaacagca	aagtanctta	360
gtnccttcaag	aggtcaggag	ttgcagtgtg	gtgttanacc	agtcanaactc	ctggctgaaa	420

gtcaatgcct	aatattggct	cccagnggcc	cctgagcact	gtctcaggg	ccacattcca	480
ggaatnttca	natnttcctg	gaatgacaag	aattggaacc	ctgctgncca	tagacatttc	540
tccttgccct	ttgggtgaaa	gaaagacttt	gggccccttt	aataccttan	tatccccatgt	600
gatcaagggc	caaaagccaa	aggggattct	tatccttata	gcctaagacc	ctgaaattct	660
tcctttccca	attatatctg	gaaattggcc	aggggaanaa	aaatgctgnc	cttccccatgn	720
ggaatctacc	aggnttaaaa	ccccnttaag	ggagttccct	t		761

&lt;210&gt; 406

&lt;211&gt; 758

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 406

gatactgaac	ttcagattat	taggtttatt	gaaaccatcc	tcttggttg	gctgaaagac	60
attcctcagt	atctttttaca	ggaccacaaa	agatcaggg	cctgcaaaat	ctcaacaaat	120
attaggctca	acaaacccaa	tgtgattctc	agattaagca	gaagcgttca	ggctcagggc	180
agtagaagaa	agcagactcg	ccagtcctctg	cagctccaac	ctgtcctcgt	atcacctctg	240
tttttgccag	cactttccgt	gaagagtgtg	agagaagacc	tgtaaatggg	aagactgttc	300
cactggaatt	gatgtttctga	tgttagaggt	gagagaattc	caagttttga	ggggagtggg	360
caaagagta	acaactaagt	ctatagatgg	cccgtaaaac	acagaatgag	caggacatga	420
atcattagaa	agtagatggc	tgctagaagt	ggcactcggg	tccgtgaatg	acagagtga	480
cgaggactc	gcttccatcc	aacgccactc	cgggtccttc	gacaactgtt	gcttgtaaga	540
tctattaaca	gtgcctgtct	ctgagtgtcc	caggagccaa	tgataggagt	ccgggaaaga	600
gtcccattca	ctgngctcta	accggctgga	tctgtctctc	ggccacagga	gagagcattt	660
ttcagcagcc	actctttggc	cncggctctt	cttccagcag	cttcctttaa	atcattcctt	720
tcttggtcgg	nggttgccat	aactgctggg	tggacctt			758

&lt;210&gt; 407

&lt;211&gt; 778

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 407

cttcaggaac	tgttaaaaga	aaaacaacaa	gaagtaaagc	agctacagaa	ggactgcac	60
aggtatcaag	agaaaattag	tgctctggag	agaactgtta	aagctctaga	atttgttcaa	120
actgaatctc	aaaaagattt	ggaaataacc	aaagaaaatc	tggctcaagc	agttgaacac	180
cgcaaaaagg	cacaagcaga	attagctagc	ttcaaaagtc	tgctagatga	cactcaaagt	240
gaagcagcaa	gggtcctagc	agacaatctc	aagttgaaaa	aggaacttca	gtcaaataaa	300
gaatcagtta	aaagccagat	gaaacaaaag	gatgaagatc	ttgagcgaag	actggaacag	360
gcagaagaga	agcacctgaa	agagaagaag	aatatgcaag	agaaactgga	tgctttgccc	420
agagaaaaag	tccacttgga	agagacaatt	ggagagattc	aggttacttt	gaacaagaaa	480
gacaaggaag	ttcagcaact	tcaggaaaac	ttggacagta	ctgtgaccca	gcttgagccc	540
tttactaaga	gcatgtcttc	ccttcaggat	gatcgtgaca	gggtgataga	tgaagctaag	600
aaatgggaga	ggaagttag	tgatgcgatt	caaagcaaag	aagaagaaat	tagactcaaa	660
gaagataatt	gcagtgtcta	aaggacactt	agacagatgt	ccttcntatg	gaagaattaa	720
agantacat	ttcaggcttt	gaccatgaca	gcagatttgg	agtccaggnc	caaccaga	778

&lt;210&gt; 408

&lt;211&gt; 752

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 408

canattatta	ggttnatnga	anccatcctn	tnggntnggn	tgaaanacnt	tcctnagtn	60
nttttacngg	accncaaaan	atcagggncc	tgcaaaatct	cancaaatnt	taggctcanc	120

```

aaaccaaang ngattntnaa attaancaaa ancgttcagg ctccagggcag taaaaaaaaaag 180
caaaactcgcc agnccntgca gctccaacct gncctcgat cncctntggt tttgcaggcn 240
ntttccgnga anagttggan anaaaacctg taaanggnaa aactgttcca ntggatnga 300
ngttctgatg ttanaggnga nanaattcca agttttgagg ggagnggncc aaagagtacc 360
aactaagtnt ntanaggcc cgtaaaacnc anantganca ggacntgaat cnttaaaaaag 420
taaagtggctg ntaaaagngg cncctcggtc cgtgaatgac agagtganca caggactcgn 480
ttccatccaa cgccantccg ggtccttcga caactgtngc ttgtaanac tattaacagg 540
gcctgntcct gantgccaca ggagccaatg ntaggagtc gggaagagtc ccatttcact 600
ggggccttaa ccgtctgaat ctgggtcctg gccncagaga gaggnttttt nagnaggccc 660
ncnttttggg ccccgttntt ttttcagca ngcttccctt taattcattc ncttcccggg 720
ctgggggttg caaaacntgc tggntgacct tt 752

```

&lt;210&gt; 409

&lt;211&gt; 736

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 409

```

ggcgtgtcaa aactaacgta cctgtcaagc tctttgcccg ctccacagct gtcaccacca 60
gctcagccaa gatcaagtta aagagcagtg agctgcaggc catcaagacg gagctgacac 120
agatcaagtc caatcgcgt gcccgtgctga gccgcttgga gcagatcgct gccgagcaaa 180
aggccaatcc agatggcaag aagaagggtg atggaggtgg cgccagcggc gccggcgggc 240
gtggtgtggg cagcgggtgg ggtggcagtg gtggtggcgg tggcggtggc aacagcggc 300
caccagcccc ccaagagaac acaacttctg aggcaggcct gcccagggg gaagcacgga 360
cccagagcga cggcgatgag gaagggctcc tgacacacag cgaggaagag ctggaacaca 420
gccaggacac agacgcggat gatggggcct tgcagtaagc agcctgacag gagcaatggc 480
caccagcagg tgaagggcat cgctgcccg gccccaagc gggcaccaca ccctggatgc 540
cacccccag cgggtaccag aggaagctg cagcaggcgg cctcctcccc caacgcacnc 600
cagccagtgc catgtcctct gcaggtggag ttactggcct actccttccc atgaaccctt 660
ccttgtctgc acttgccagg ccagagggta gagcacangg gtttcccat acttaccttc 720
ccttccagg acactt 736

```

&lt;210&gt; 410

&lt;211&gt; 766

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 410

```

gggatccaat ctctttattg tcagggtccc ctccctgngg ccccccgcga aacctataga 60
aaaaacccaa gcctgggagt gtccctggga ggggaggtag tatggggaaa cccctgngct 120
ctaccctctg gcctgggcag tgcanaacag gagggtcat ggggaaggag taggccagta 180
actccacctg cagaggacat ggcactggct gggatgcgtt ggggaggag gcgctgctg 240
ccagctttcc tctggtaccc gctgggggtt ggcacccagg gttgggtgcc cggttgagg 300
cctggggcag cgatgccctt cactgctgg nggcatgctt tcctgtcagg ctgcttactg 360
caaggcccca tcatccgcgt ctgtgtcctg gctgtgtccc agctcttcc ctgtgtgtgt 420
caggagccct tctcatcgcc cgtcgtctcg ggtcgtgctt tccccctgg gcaggcctgc 480
ctcanaagtt gngttctctt ggggggctgg tggcccggt gttgccaccg gcaccggcac 540
caccactgnc accgncaccg ctgcaccacc accgncggcg cccgncgntt ggcgccaact 600
tcatnaccct tcttcttgca tctggaatgg ncttttgctt ncgcancgaa ctgntccaaa 660
cgggttaanc agggcatcna ttttggact tgaactgggn caancttccg ncttgaangg 720
ccttgcaagc ttnaatggtc tttaacttga actttggctt gaacct 766

```

&lt;210&gt; 411

&lt;211&gt; 812

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 411

ggcgtgtcaa	aactaacgta	cctgtcaagc	tctttgcccc	ctccacagct	gtcaccacca	60
gctcagccaa	gatcaagtta	aagagcagtg	agctgcaggc	catcaagacg	gagctgacac	120
agatcaagtc	caatatcgat	gccctgctga	gccgcttgga	gcagatcgct	gcggagcaaa	180
aggccaatcc	agatggcaag	aagaaggggtg	atggaggtgg	cgccagcggc	ggcggcggcg	240
gtggtgtgtg	cagcgtgtgg	ggtggcagtg	gtggtggcgg	tggcgtgtgg	aacagccggc	300
caccagcccc	ccaagagaac	acaacttctg	aggcaggcct	gccccagggg	gaagcacgga	360
cccagagcga	cggcgtatgag	gaagggctcc	tgacacacag	cgagggaagag	ctggaacaca	420
gccaggacac	agacgcggat	gatggggcct	tgcagtaagc	agcctgacag	gagcaatggc	480
caccagcagg	tgaaggcat	cgctgcccc	ggcctcaagc	cgggcaccca	accctggatg	540
ccacccccca	gcgggtacca	gaggaaagct	ggcagcaggc	gcctcctccc	ccaacgcacg	600
ccagccagtg	ccatgtcctc	tgcaggtgga	gttactggcc	tactccttcc	ccatgagccc	660
tccctgtctg	cactgcccag	gccagagggg	agagcacagg	ggtttcccca	tactacctcc	720
cctccccagg	acactcccag	gcttgggttt	tttctatagg	tttggcgggg	ggccncaggg	780
aggggaccct	gacaataaag	agattggatc	cc			812

&lt;210&gt; 412

&lt;211&gt; 857

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 412

aaccatctta	gcccccaaaa	tgatgatgct	ctggagacac	gagctaagaa	gtctgcatgc	60
tctgacatgc	ttctcgaagg	tggtcctact	acagcttctg	taagagaggc	caaagaggat	120
gaagaagatg	aggagaagat	tcagaatgaa	gattatcatc	acgagctttc	agatggagat	180
ctggatctgg	atcttgttta	tgaggatgaa	gtaaatcagc	tcgatggcag	cagttcctct	240
gctagttcca	cagcaacaag	taatacagaa	gaaaatgata	ttgatgaaga	aactatgtct	300
ggagaaaatg	atgtggaata	taacaacatg	gaattagaag	agggagaact	catggaagat	360
gcagctgctg	caggaccgcg	aggtagtagc	catggttatg	tggtttccag	tagtagaata	420
tcaagaagaa	cacatttatg	ctccgctgct	accagtagtt	tactagacat	tgatccatta	480
attttaatac	atttgttgga	ccttaaggac	cggagcagta	tagaaaattt	gtggggctta	540
cagcctcgcc	cacctgcttc	acttctgcag	cccacagcat	catattctcg	aaaagataaa	600
gaccaaagga	agcaacaggc	aatgtggcga	agtgcctctc	gatttaaaga	tgctaaaaag	660
actcaaaact	caaattggcc	gaagtccgat	gtatgaaaac	tgatgtaaag	gaatacactt	720
tcagaaataa	aaagcacagt	gctgcttctg	gagacatgcn	gacaagnctt	tttttgctga	780
nccagcagnt	ntggctgatg	tggactgaaa	cttttggcag	aatgcaggat	ttggatggac	840
tcctggcnaa	agtcttta					857

&lt;210&gt; 413

&lt;211&gt; 790

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 413

ctcaagtnga	ttttattanc	aaaaagngca	aactattttg	ancaaaaagta	aactatgagt	60
cacagcnttc	agcaagacat	canacncgga	anagnganca	atattcacta	agtaaaatnc	120
agcanatgan	atgtctntca	catgtatatt	naattattca	tgttttttca	atagtctntt	180
agtcaacttt	cagngtaatt	tccacaaata	tatagcagnt	caaacncaaa	tgaggaganc	240
caanggcaaa	gttnggcaac	tgtttngggc	taattatgag	tntgaaagaa	anccttatat	300
cacagtttca	cgttcatgta	anccactgng	caacatgaat	gaatntttaa	angngttgac	360
nctgaaatca	angtncaact	aangaaanta	aagaanaaaa	gggggcttta	aaatatngt	420
ngcncacag	tcgtatagta	agaggcagaa	aaaaatgaan	gaatttttaa	taatcttaca	480
cgtgtntaca	gggccaggaa	cgtaatgaat	ccatgttaac	ttaatttcat	ttaaaattnc	540



attttagtagaa	gtcncncaac	agaaagatcc	atgdcggttga	acagtgtgcc	tgtnccttgac	600
aagttagagaga	agatccttct	ccaaaaggga	gattcagtcct	agggntactt	cagttnttcc	660
catagnggct	acagggcana	atctttttca	aaagcaattt	tctgggtccct	aaatctacag	720
gcncctantgg	gacctgtaat	taaaancccc	caatttttaag	gangattttt	aaacccact	780
taagctttta						790

<210> 414  
 <211> 1063  
 <212> DNA  
 <213> Homo Sapiens

<400> 414						
gnnnntnncn	gccannncan	agnntgntca	cctccnagat	nngggatggn	ntgggtgaccc	60
nggcnttgac	tctgnnnngc	gacntnttgc	tagtcttcag	gnctcctact	acaggccttg	120
taatganctn	nacttgnctt	gagacagcct	angggagacc	acggatgntc	tattannngn	180
gcangctgnn	ctatngcaan	ntgggnctna	nnctgnanaa	tcannngcng	ccatgnnaga	240
tnaatagaag	ctcatnntgt	cataaatggn	ccatgactta	taaatnaagt	ggactggata	300
tcttatgaca	gnagcnatnt	angcttngtg	ngnagttaan	gcttccacct	nnggangata	360
agaggncnac	cttgtntnan	ctnntgcngc	tgnaagancc	agaganannt	gccntgggag	420
attcatggcc	natgatagta	tatnatctct	tacaccanac	atgccttgct	gnatcncaaa	480
tctggacata	cacgntttcc	ccatctcaga	cttcnttgca	gcagctgctt	nccnacnnta	540
cccatgaacg	acanntgctt	acgntanagc	ntgaacnatn	tgatgagctt	cntcagccca	600
gacctcatca	tttcgagaag	cacatgtccc	tgcgtttcaa	cctatggatg	aggaaaagnc	660
ctngngctta	aagctcttga	aaatccttta	cacnngaanc	nttctgcata	gcttnaatca	720
ctctgagntg	cccacatngn	gtncgtgaag	gcttccggnt	annatgggtc	cgggacctnc	780
aacccttccg	tttgaatnct	nacntgaccg	ganagggtnt	gcctgggttc	cttgngccnc	840
gaacttaacc	ntcacaattn	ggntgngant	tcntggtaac	ggcntaatct	nccccaggaa	900
ttggccgctg	cttcnacggg	aattaanggg	aatctttccc	atcccnctta	nnaccagtta	960
gnggccntt	tttcaatttt	cngactcccg	gagcttttaa	aaaccggggg	ccttaggttn	1020
cttggatggc	nttgggggtn	gcccccttta	gggaattaaa	ggg		1063

<210> 415  
 <211> 824  
 <212> DNA  
 <213> Homo Sapiens

<400> 415						
gtttgattnt	aacaaaannt	attatgcaca	aatnacnnag	gntanagact	ctnnatctn	60
anatnaaaat	ancagttata	attacacaca	taatataggt	accttataca	atgattccaa	120
taaatatcac	aggaaataca	ntgcattttc	aagntgnana	gacnaatact	tnctcattca	180
cagngnttga	catanganag	cctattttca	tancnatctg	tataaagtca	tgctctnant	240
ancaggntat	ncagngctgn	gccancacaa	tgntttnaga	angtgaagaa	ccggncaaac	300
cactnntggn	gctggggatc	tggnanaagcc	acctgnanaa	gcttcaactc	gagcangact	360
cannaatgnc	ttgngccctt	taggtggcac	tggtctgga	agtgggttaag	ctgctgctga	420
actcaattcg	tggaactgnag	aattaggaat	ggganccagg	cggttnggat	gaccattgcc	480
cactcnanac	natnccaaag	nnctnagaan	gggaacnctc	caancctgct	tnatggngat	540
taancatnct	tcttcttttg	cttaacccat	ggattananc	acancagcna	gtacngactt	600
ggnntttacc	nettcngttg	gaaataagga	ttcttgatng	actaaannnc	agctggtnaa	660
aacntaactn	tccttcaatt	tagenttatt	ntatgaancc	ggggcctant	ntcntgttca	720
aaaangngnt	tttaagttcc	ggtaatccta	ccgnaatta	nttgggggct	ntgaattcan	780
cnccttana	anatttnggn	ttaccatttn	aatccaaagg	ccac		824

<210> 416  
 <211> 838  
 <212> DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 416

ctcaaaagtg	gaaaatatgt	acaatctgta	atgagctttt	tcctgaaaat	gtctatagt	60
tgcacttcga	aaaagaacat	aaagctgaga	aagtcacagc	agtagccaac	tacattatga	120
aaatacacaa	ttttactagc	aaatgcctct	actgtaatcg	ctattttacc	acagatactc	180
tgctcaacca	tatgttaatt	catggctctgt	cttgctccata	ttgccgttca	actttcaatg	240
atgtggaaaa	gatggccgca	cacatgcgga	tggttcacat	tgatgaagag	atgggaccta	300
aaacagattc	tactttgagt	tttgatttga	cattgcagca	gggtagtcac	actaacatcc	360
atctcctggg	aactacatac	aatctgaggg	atgccccagc	tgaatctggt	gcttaccatg	420
cccaaaataa	tcctccagtt	cctccaaagc	cacagccaaa	ggttcaggaa	aaggcagata	480
tcctgtataa	aagttcacct	caagctgcag	tgccctataa	aaaagatggt	gggaaaaccc	540
tttgtcctct	ttgcttttca	atcctaaaag	gacccatata	tgatgcactt	gcacatcact	600
tacgagagag	gcaccaagtt	attcagacgg	tcacccagtt	tgagaaaaag	ctnacctaca	660
aatgnatcca	ttggcttggt	gngnatacca	gcaacatgga	ncggctnaac	tatcacttct	720
gnatctagnt	cactggangg	gccgtttggn	aagganccca	aatgggccag	gataagacaa	780
aaggcnccct	ttnggggttaa	tcagncttcc	aagtcctngca	cctgtgnaac	gcacttac	838

&lt;210&gt; 417

&lt;211&gt; 880

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 417

aagcacataa	cagcaattta	tttagatgct	taaaatgaat	acaaagggaa	aataaagatc	60
acaaaattat	acatactaca	acagtgtgtc	atatattaga	tggtataaat	gaatccacca	120
tgatggtggt	gaactaaaga	taaaactaaa	tatccaaaat	gcagcactca	ttggtttgct	180
gcttcaacac	aacacacttt	tatacagatc	taaaagggtg	caaaattagt	agctgcaaag	240
tcaattcttg	catgtgattt	tagcttaaaa	gatttcagaa	aacagatctg	aaataccagt	300
ttttgttttt	gacagctgta	atgtcaagga	tattcagaac	aagaaaaatc	ctataatata	360
agagagtcca	gatatatatc	ttacgtggct	ggcctctggt	gcaagattgt	acaaggttat	420
gtgcaaaaac	taagtctgtc	caaaaagtc	atactagcgc	agttttgagc	ttttgctagg	480
taaactagat	agagcgttta	ttacacagca	agggcaacac	taaaaaaaga	aatctatgat	540
gggcacacag	taacaggatc	atgagcatca	cttgaatagg	tctaaaagac	tgtcaaatat	600
acatttcaac	tattcagaat	gaatacatga	aaaaaaatcg	cttttcccaa	aggtctacta	660
tacncattan	actgggagct	tgnatgttgg	gccctacact	accatgggga	attangttta	720
acacttntta	aaaacatttg	gccaatcatt	tcncagangg	gaaagaaatg	ttgaaaaggc	780
cgataaaata	aacccttggg	ttttcctcgg	gggattcatg	gagtcacccg	ccttaatggg	840
ttttcacatt	taagttaccc	gggcttggca	aaaaaaggtt			880

&lt;210&gt; 418

&lt;211&gt; 763

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 418

agaagatggc	ggaagcggaa	tttaaggacc	atagtacagc	tatggatact	gaaccaaacc	60
cgggaacatc	ttctgtgtca	acaacaacca	gcagtaccac	caccaccacc	atcaccactt	120
cctcctctcg	aatgcagcag	ccacagatct	ctgtctacag	tggttcagac	cgacatgctg	180
tacaggtaat	tcaacaggca	ttgcatcggc	ccccagctc	agctgctcag	taccttcagc	240
aaatgtatgc	agcccaacaa	cagcacttga	tgctgcatac	tgacgctctt	cagcagcagc	300
atttaagcag	ctcccagctt	cagagccttg	ctgctgttca	ggcaagtttg	tccagtggaa	360
gaccatctac	atctcccaca	ggaagtgtca	cacagcagtc	aagtatgtcc	caaacgtctg	420
tagaaattct	tatggactgg	aatcttcttc	aaggcttact	ttgttcctgg	gatgcagtgg	480
tgcatagaag	atagggcatt	gactcactca	gacctggctt	gccacgcatg	cattgcaaca	540

ataatgtgca	agttattaaa	gacatgagtg	aattcgtgac	agattgtcag	aaaagaaaca	600
agagttttct	acaacaaaaa	actggcttat	ggaacatata	cttctgcttg	agttgaatgt	660
gttggggctg	agtgtaaaga	aatgcaagct	gcaaatctgg	cttacatgtg	gaaccaaagc	720
tggaatgng	tgctttaaan	gcaacttgta	aaattggatt	tcc		763

&lt;210&gt; 419

&lt;211&gt; 753

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 419

ggactattta	cttttaagt	aattatcaat	acagtcgggt	taaatctacc	atthttgtgt	60
tggttttcta	ttgttttcat	ttgttctctc	ttcctttttt	tcacctcttc	aggattattt	120
tggttttcta	ctttttttta	nagngtcgtt	ttaccactac	tattggccta	ttacctgtat	180
ctcttttttt	taatggcatt	tctctaggat	ttacaatatg	catcttttagc	ttatagtatc	240
ttgaaatagt	agngtaacac	ttcacaaata	gagtaaaaac	cttataatct	tccatttttc	300
ccttccttct	ttgtgctat	tgatgacnca	tatttactcc	tacagatatt	ataaacaat	360
tgatatacnc	acattatcat	ttttgcttta	catactcaat	tatcttttaa	ataaaataaa	420
aattgaggag	aaaatccggt	atattatcta	cacatttact	gtttccagca	cttttcattt	480
ctttgngtag	attcaaat	ctgnatctt	ccctttgccc	aaagaacttc	ttttcatctt	540
tcttatagtt	caggtctgct	ggcaaccaat	tagctcagcc	tttggtttgc	taaaaaagtt	600
catatattat	cttgattttc	aaatgggnatt	taagctctat	ataggaattc	ttaggtgact	660
ttaatctctt	catcattggg	aagangtcat	aaagggcttg	caaaggacta	gaaatctgct	720
tacatttttt	natttggtta	tctttcttac	cca			753

&lt;210&gt; 420

&lt;211&gt; 799

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 420

gaaaaacgct	ttgataccaa	gaattaaaaa	tgcttgctta	caaacatctt	cccttgcggt	60
tcgtgtaaat	tcattagtg	gcttaggaaa	gattttggaa	tacttgata	agtggtttgt	120
acttgatgat	atcctaccct	tcttacaaca	aattccatcc	aaggaacctg	cggctcctcat	180
gggaatttta	ggtattttaca	aatgtacttt	tactcataag	aagttgggaa	tcaccaaaaga	240
gcagctggcc	ggaaaagtgt	tgccctcatct	tattcccctg	agtattgaaa	acaatcttaa	300
tcttaatcag	ttcaattctt	tcatthccgt	cataaaagaa	atgcttaata	gattggagtc	360
tgaacataag	actaaactgg	agcaacttca	tataatgcaa	gaacagcaga	aatcttttga	420
tataggaaat	caaatgaatg	tttctgagga	gatgaaagtt	acaaatattg	ggaatcagca	480
aattgacaaa	gtttttaaca	acattggagc	agaccttctg	actggcagtg	agtccgaaaa	540
taaagaggac	gggttacaga	ataaacataa	aagagcatca	cttacacttg	aagaaaaaca	600
aaaattagca	aaagaacaag	agcaggcaca	gaagctgaaa	agccagcagc	ctcttaaacc	660
ccaagtgcac	acacctgttg	ctactgttaa	acagactaag	gacttgacag	acacactgat	720
ggataaatatg	tcatccttga	ccagccnttc	tggtagtacc	cctaaatctt	ctgcttcaag	780
tctttcactt	ctggctcctt					799

&lt;210&gt; 421

&lt;211&gt; 770

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 421

gttcaatatg	ggggacattc	tggtctcatga	atctgaatta	cttggactag	tgaaagagta	60
tttagattht	gctgaatttg	aagacacctt	gaaaacattt	tcaaaagaat	gcaaaataaa	120
aggaaaaacca	ttgtgtaaaa	cagtaggcgg	atctttcaga	gactccaaat	cattgacaat	180

tcagaaggat	cttgtcgtg	catttgacaa	cggagaccag	aaggtgttct	tcgatctgtg	240
ggaggagcac	atttcaagtt	ccatccgaga	tggggactcc	tttgcccaga	agctggaatt	300
ctatctccac	atccattttg	ccatctatct	tttgaagtac	tctgtgggga	gaccggacaa	360
agaggagctg	gatgaaaaga	tttctactt	caaaacctac	ctggagacca	aaggggcagc	420
cttgagccag	accacagagt	ttcttccttt	ctatgccctt	ccttttgttc	ccaaccttat	480
ggtgcacccc	tcattttaaag	aactcttcca	ggattcctgg	actccagagt	taaagttgaa	540
gttggaagag	tttctagctt	taatatctaa	agccagcaac	acgccaaaagc	ttttaacaat	600
atataaggag	aatgggacan	agtaacaaag	aaatcttgca	gcagcttcac	cagcagctgg	660
ntgaagcttg	aaccgtaggt	caatgacata	cctcaaacgg	naccataaga	tccaggccccg	720
actaccacaa	tctcantgga	gtcacagcan	aactggtggg	attctcttga		770

&lt;210&gt; 422

&lt;211&gt; 733

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 422

caaaangaan	gctttattttt	gaattttaaa	aatacataca	tcttacactg	taatcaaaac	60
aaagcttaag	aaagtcaatt	cccgttctt	ttagccctga	cttacactgg	gtaccctgtt	120
ctgtggccgc	cgggggtgac	ggncccttgc	aggggctcat	ccccgctcca	ctgcacatta	180
ccagccccct	tccgccttgt	cttccccgng	ttggtcatga	tccccaggta	ctccgnggtc	240
anaagcttct	ctcctgagag	ttctccgagc	tggggtgga	tcagttcgtc	tttgtccana	300
tcggcttcca	tgatgtcatg	gncctcttca	tcatcttcat	cttcatcatc	atcagattca	360
agaacaccat	ctggtagctc	ttcgggaattt	agctgcttga	tgatgaattc	tatctggcgg	420
atcatttcag	cattgccttc	tttgatgaag	cagcgttaga	tgtcttccat	tcccattgct	480
cttgcttcct	cacgaatgga	tggancagaa	aggatgctgt	acagagctcc	attcacatac	540
ggctgtatct	catggttttc	atggccaaga	agatccgaaa	ggactttgag	caccgaggcc	600
tgccaccttg	gcacacatgg	tcttccctgn	gctgcggagg	gcagagggtc	atggagcaaa	660
agccaccgag	tactccaacg	gggnagccag	acagggcagn	cagggtcctt	tcanaacatc	720
aaccagcccc	gaa					733

&lt;210&gt; 423

&lt;211&gt; 862

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 423

catctgtcca	gggtgcatcg	agccgggagg	gctcaccagc	caggagcagc	acgccactcc	60
actccccctc	gcccattcgt	gtgcacaccg	tggtcgacag	gcctcagcag	cccatgaccc	120
atcgagaaac	tgcacctgtt	tcccagcctg	aaaaacaaac	agaaagtaag	ccaggcccag	180
ttggaccaga	actccctcct	ggacacatcc	caattcaagt	gatccgcaaa	gaggtggatt	240
ctaaacctgt	ttcccagaag	ccccacctc	cctctgagaa	ggtagagggtg	aaagtcccc	300
ctgctccagt	tccttgtcct	cctcccagcc	ctggcccttc	tgtgttcccc	tcttccccca	360
agagtgtggc	tacagaagag	agggcagccc	ccagcactgc	ccctgcagaa	gctacacctc	420
caaaaccagg	agaagccgag	gctcccccaa	aacatccagg	agtgtgaaa	gtggaagcca	480
tcctggagaa	ggtgcagggg	ctggagcagg	ctgtagacaa	ctttgaaggc	aagaagactg	540
acaaaaagta	cctgatgatc	gaagagtatt	tgaccaaaga	gctgctggcc	ctggattcag	600
tggaccccga	gggacgaagc	cgatgtgcgt	caggccagga	gagacggtgt	caggaagggtt	660
cagaccatct	tggaaaaaact	tgaacagaaa	gccattgatg	tccangtcaa	gtccagggtct	720
atgaacttca	agccaagcaa	ccnttgaagc	agatcaagcc	cctggaggca	atcatggaaa	780
aggggtgccg	ggcagcaaga	caagggcaag	aaaaatgctt	ggaaatggcn	gaagatcccc	840
acacnggaaa	ccagcaggcc	cg				862

&lt;210&gt; 424

&lt;211&gt; 859

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 424

```

gagttatatt attactttat tttctttttt taaaatgtag cattaaagtc atccaacata      60
cagatattcc tatggctcct ggcacatttt actctctcta aagtcaggta ttttaattat      120
gagatgaaga aaatcatctc attaaaatgg caacatttct gataaatgtt tcatatttat      180
gtgatgggta attgactccc catctacccc tccagtcag agctacaaaa gacagtgcac      240
aaccacagct aacagggtgg gggggtgccc aagtagacag ggctgcagaa caagcaacgg      300
ggttaaactt ctcaaacaac aagcaacttc tttatttgta cagagtaaga atatagaaga      360
aaagcatcat tttccttttt agccctttta ttagtgtttt gctccacccc aagttactgc      420
ataccaagca gctaataaaa accaactgac ttaaagtctc tgaaatgcat gcaacttaaa      480
attccctaaa gcacacatcg gttccgagtc tgatttttac agggcagagg ctacggtgct      540
gctgggttac caggggtgtc tggcatgctg ctggggtttg aagtcgctgc tgctgnggct      600
tctggctgct gggtttctgt gtggggatct ttctgcattt ccagcatttt tcttgccctt      660
ggctgctgcc acggnaccca tcttcatgaa tgctgcaaa tggctggacc tgnttcaaag      720
gttgctgggg ctggagttca ttagacctgg acctggccc tgggacatca aagggttttc      780
tggccaaggt ttttccaaga agggcctgga accttcctgg acancggnnt tttctgggcc      840
tggaacgcna attgggggtt                                     859

```

&lt;210&gt; 425

&lt;211&gt; 837

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 425

```

cagaatggag gtggagtcct taaacaaaat gcttgaggag ctaagacttg aacggaagaa      60
actaatggag gattatgaag gcaagttgaa taaagctcag tccttttatg aacgtgagct      120
tgatactttg aaaaggtcac agctttttac agcagaaagc ctacaggcca gcaaagaaaa      180
ggaagctgat cttagaaaag aatttcaggg acaagaagca attttacgaa aaactatagg      240
aaaattaaag acagagttac agatgggtaca ggatgaagct ggaagtcttc ttgacaaatg      300
ccaaaagctt cagacggcac ttgccatagc agagaacaat gttcagggtc ttcaaaaaca      360
gcttgatgat gccaaaggag gagaaatggc cctattaagc aagcacaaag aagtggaaag      420
tgagctagca gctgccagag aacgtttaca acagcaagct tcagatcttg tcctcaaagc      480
tagtcatatt ggaatgcttc aagcaactca aatgacctag gaagttacaa ttaaagattt      540
agaatcagaa aaatcgagag tcaatgagag attatctcaa cttgaagagg aaagagcttt      600
tttgcaagc caaaacccaa agtctggatg aagagcagaa gcnacagatt ctaagaactg      660
ggagaagaaa gtaaatgaac caagagactc agcaggaata ttatgaaagg gaacttaaaa      720
anctgcaagt agaatggaag aagaggggct taattaacga nggccattct aagacttttg      780
gaagaattag cttggaacnc cttttggcaa ttgaacttgt cncaggtaat gccattt      837

```

&lt;210&gt; 426

&lt;211&gt; 724

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 426

```

gattctaaca aaatttatta tgcagtaatt acaaagggtta aagactcttc catctcaaat      60
aaaaataaca gttataatta cacacataat atagtacctt atagaatgat tccaataaat      120
atcacaggaa atacagtgca ttttcaagtt ggagagacaa atactttctc attcacagtg      180
tttgacatag gaaagcctat ttacataaca atctgtataa agtcatgctc ttagtaacag      240
tctatacaga gctgtgccaa cacaattctt tcagaatgtg aagtaccggg caaaccactc      300
ctggcgctgg ggatctggag aagccactgg agaagcttca ctctgagcag gactcaaaaa      360
tgtcttgggc cctttaggtg gcaactggctg tggaagtggg ttgctgctgt tgaactcaat      420
atcgtggact ggagaattag gaatgggatc caggcgggtta ggatgtccat tgcccactcc      480

```

accagattcc	agagcactta	nattgggaac	actcacaaac	ctgtttggtg	gtgatttatc	540
attcttcttc	ttttgcttag	ccaatggatt	aataacacca	acagtaggac	ttgagttaaa	600
cactttgggt	aaagttagtt	tctcgaattg	actaattcca	gctgataaaa	cttattatcc	660
tcaattagtt	tctttatgan	ctgggcctct	ttctgtaagc	atggccttta	attctggaat	720
catc						724

&lt;210&gt; 427

&lt;211&gt; 981

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 427

aaaaacaaaa	taaaacaaaa	aanaaaaaant	atatatatnt	atatatatat	atatatatat	60
acacacacac	acacaactca	aagagttana	atcattacnt	ncaaatgaaa	gtcgtaatga	120
tagatgatga	tagntncaat	gaanctgnga	ncatanatta	angaaacana	naacantncn	180
aaaggtccac	aaatctggtc	ctatgaaaag	agtaaaatta	ccaagactng	gtgaaaganc	240
ccannaaaaan	ncanagagag	anagagagag	agagaganac	anagagagag	aganaaaggg	300
aaggcacacn	taancnatat	cagcaataaa	angggnnact	ttantacana	ttctgcaanc	360
attannnnna	taatganagg	atattatgaa	cagttgtatg	gcnatatgtt	tgaaaactta	420
gatgccgata	tgtttgaaaa	cttaaatgaa	acggaaaaat	tccttgaaag	accacaantt	480
aaatttgaca	caggtagaaa	atntgaatgc	agttngncct	tcagtatctg	tggggaaatc	540
ggttncagaa	ccactcccc	antaccnaaa	tttataattg	ctcaagttcc	tgatataaaa	600
tggaagagta	tttgcataata	ncctatccct	acccttttac	atactttaaa	taacctntga	660
gttncctnat	tatacctaac	ataatgtaca	tttctgtggc	aaatcgntnn	taatatggga	720
ttttnaaaat	tatnttantt	ttggaatagg	nngtantatt	tcctggggct	ttttttttcc	780
ccaaatattt	tntaattccc	caattnggtt	ggaatcttgg	gaaccccatg	gnggggancc	840
catangattt	tggaanggn	ccaacttggg	gccttngtaa	ctttttaaag	aaatngggaa	900
ttctttgntn	aanaattctt	ncncccaaag	aaaacccctt	tgccccana	agttntttna	960
aatggggaaa	tttncccaaa	c				981

&lt;210&gt; 428

&lt;211&gt; 655

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 428

ataggacaac	atgaacattg	ttgagtcact	gaagctaaac	caaacttgct	tttctgtaat	60
aaaccaaat	tggtcatgat	ttaatatatt	ttggatcgct	ctggatttgg	tttgctaata	120
ttttattcat	ccaagaaata	ttcattagag	aaattggcat	gggatttttt	tttcattgta	180
atgtccttgt	caggtatcaa	ggctttttca	gctgataaaa	gcatattaag	aaatgcttcc	240
tcttttccta	ttctctggaa	aagattgtgt	aatatgtctg	ttactacttc	ctgtaatgtt	300
tggtgaaatt	cacaattgaa	gacatctggg	cctagcgtgt	tccttgtagg	aagaatatta	360
agaaagaatt	ccatttcttt	aaaagttacg	agcacagttg	gccttcaga	tctatggatc	420
ccacatgagt	tccagattca	accaattgtg	tattaaaaat	atttgggaaa	aaaagccaca	480
agaaataata	caactataca	aaataatata	atttttaaaa	tacaatataa	caacgattta	540
cacagaatgt	nccattatgt	taggnattat	aagtaactca	gaggntattt	aaagnatgtg	600
agagggnatg	gataggctat	atgccaaata	ctttgccant	cttatantca	gggaa	655

&lt;210&gt; 429

&lt;211&gt; 788

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 429

gagcagcaga	gatttttgct	gtgagaatta	attaccagta	acagttcaat	atgggggaca	60
------------	------------	------------	------------	------------	------------	----

```

ttctggctca tgaatctgaa ttacttggac tagtgaaaga gtatttagat tttgctgaat 120
ttgaagacac cttgaaaaaca ttttcaaaag aatgcaaaat aaaaggaaaa ccactgtgta 180
aaacagtagg cggatctttc agagactcca aatcattgac aattcagaag gatcttgtcg 240
ctgcatttga caacggagac cagaagggtg tcttcgatct gtgggaggag cacatttcaa 300
gttccatccg agatggggac tcctttgccc agaagctgga attctatctc cacatccatt 360
ttgccatcta tcttttgaag tactctgtgg ggagaccgga caaagaggag ctggatgaaa 420
agatttccta cttcaaaacc tacctggaga ccaaaggggc agccttgagc cagaccacag 480
agtttcttcc tttctatgcc cttccttttg tttccaaccc tatggtgcac ccctcattta 540
aagaactctt ccaggattcc tggactccag agttaagtt gaagttagaa aagtttctag 600
ctttaatatc taaagccagc aacacgccna agcttttaac aatatataag gagaatggac 660
aaagtaccaa gaaatcttgc agcagcttca ccacagctgg ttgaagctga acgtaggtca 720
gngccttctt taaacgggcc aattaagaat ccaggccgac taccacaatc ttantggggg 780
tcccagca

```

&lt;210&gt; 430

&lt;211&gt; 655

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 430

```

caaaatgaat gctttatatt gaattttaaa aatncatacn tnttacnctg naatcaaaaac 60
aaagcttaan aaagtcaatt cccgnttcc tttanccctga cttacnctgg gtncccgttt 120
ntggggccnc cgggggngac gggcctttgc aggggctcat ccccgntcca ctggacatta 180
nccagccctt tccgccttgg cttcccccng ttggtcatga nccccaggtn ctccngggtc 240
aaaagcttnt ntccctgaaag ttctccganc tggggctgga tcanttcgtc tttgnccaaa 300
nccgnttcca tgatgncatg ggcctnttca tcatcttcat tttcatcatc atcanattca 360
anaacnccat ntggnanctt ttcggaattt aactgcttga tgangaattc tatntggngg 420
ancatttcag cattgccttn tttgaagaac cancgtagga nggtttccat tcccattggt 480
nttgnttcc taccgaatgga tggaacanaa aggatgctnt acanantccc attcacatac 540
ggntgnatnt catggnnttc atggccaana anaatcccaa aggctttgag cccaggntcg 600
gcccttgga caaatgttnt tccctggcttc cgaaggccaa ggttcattga ccaaa 655

```

&lt;210&gt; 431

&lt;211&gt; 844

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 431

```

ggaagaagga agaggtaact ataactaccc aatattgcag ccatggagtc catgcttaat 60
aaattgaaga gtactgttac aaaagtaaca gctgatgtca ctagtgtgt aatgggaaat 120
cctgtcacta gagaatttga tgttggtcga cacattgcca gtggtggcaa tgggctagct 180
tggaagattt ttaatggcac aaaaaagtca acaaagcagg aagtggcagt ttttgtctt 240
gataaaaaac tgattgacaa gtatcaaaaa tttgaaaagg atcaaatcat tgattctcta 300
aaacgaggag tccaacagtt aactcggctt cgacaccctc gacttcttac tgtccagcat 360
cctttagaag aatccaggga ttgcttgga tttgttacag aaccagtttt tgccagttta 420
gccaatgttc ttggttaactg ggaaaatcta ctttccccta tatctccaga cattaaggat 480
tataaacttt atgatgtaga aaccaaatat ggtttgcttc aggtttctga aggattgtca 540
ttcttgcata gcagtgtgaa aatgggtgca tggaaatata actcctgaaa atataatatt 600
gaataaaaag ggagcctgga aaataatggg ttttgatttt tngtattcat caaccaatcc 660
ttctgaacaa gagcctaatt ttccttgtaa agaattggac ccaaatttac cttcattgng 720
tcttncaaat cctgaatatt tggcttctga atcctacttt ctgngaactt gtgaaaccag 780
ccagtggata tgggattcnt ttaggaactg gtatggaatg ccgggatttt aataaaaggg 840
gaaa
844

```

&lt;210&gt; 432

<211> 807  
 <212> DNA  
 <213> Homo Sapiens

<400> 432

atcaaagcta	aaatttattt	ggtgcatact	cctcttgata	tcaggtatgt	tcgcatatac	60
ctttttcttt	catgtgtaaa	aacaaccatg	tgaggatatt	tacaggtcaa	aagaaaacaa	120
aaactacttc	cttattcagt	gtaaaggagg	cttataagca	ttccaaaata	aaaacaaaca	180
aaaaccagac	aagtacatag	tctatttcca	tttcctttta	tacatcctct	ctatatatca	240
cacatttagc	aataggagaa	tagagaacta	attcaaattg	aagggaatct	tttttgtaga	300
ttctgttgac	agatgctctt	taacctaaac	attttctact	ctaaacataa	cggacttaat	360
tgtcttcagt	acgtgaaata	attttaaggt	gatctagtac	tttgaaaatt	tcattcactt	420
aagaacactt	aagctgaaaa	atagcactat	ttttcagagg	caattttctca	acagaaaaag	480
gcaatggtaa	cagttcaatt	gatggaaatg	gttgaaataa	aatacctgaa	gtagaaaaaa	540
ggtgtaggaa	caatttttga	aaaacatagc	accattacct	caacgaatga	acaaatttta	600
catactggat	ttttttcaaa	tgacttattt	tcatatttag	tagttcaagg	tctataagct	660
ggtatattaa	gctttctttc	tggttaagag	ntcaacactt	acatcatggg	attttacnaa	720
attaaaaacc	aatttcttaa	ataaaccgng	gctcctaaaa	tggtaccaag	gaaaaattct	780
tcaataccta	atttaattcc	ataagga				807

<210> 433  
 <211> 866  
 <212> DNA  
 <213> Homo Sapiens

<400> 433

cttcagccca	gatgcagaat	gggggcccct	ccacaccccc	tgcatacccc	cctgcagatg	60
gctcacctcc	attgcttccc	cctgggggaac	ctcccctgtt	agggaccttt	ccccgggacc	120
acacctcttt	ggcactagtt	cagaatggtg	atgtgtcggc	cccctctgcc	atactcagaa	180
caccagaaa	cacaaaaccg	ggtcctgttt	gtcagccacc	agtgaagtcag	agccgctccc	240
tgttttcttc	tgtcccgtcc	aagccaccaa	tgtctctgga	gcctcaaaat	gggacgtatg	300
caggaccagc	gccagcattc	cagccatttt	tcttccactg	agcattttcca	tttaatatgc	360
aagagctggt	actcaagggtg	agaattcaga	acctatctct	tcgagaaaat	gatttcattg	420
aaattgaact	ggaccgacag	gagctcacct	accaagagtt	gctcagagtg	tggtgctgtg	480
agctgggtgt	taatccagat	cangtggaga	ngatcagaaa	gttacccaat	actctgttaa	540
ggaaggacaa	ggatgttgct	cgactccaag	atttccagga	gctggaactg	gttctgatga	600
taagtgaaaa	taattttctg	ttcanaaatg	ctgcatccac	actgactgaa	aggccttgct	660
ataacaggag	agcttcaaaa	actgacttac	taatgcacag	ggacttttat	cactggagta	720
ttatgacagt	gngcatcacc	ttntgggccc	aaggaccaag	ccattggtct	aaaaggcctc	780
aaaatgcccc	gggaggccct	ctggtggcca	tggcattagt	atatactaac	catcattctg	840
gccaggtaag	gaagcccctg	gacccc				866

<210> 434  
 <211> 764  
 <212> DNA  
 <213> Homo Sapiens

<400> 434

caaaataacc	tttatttttg	atacaaaaat	aaagatgcta	actccttttag	ctcagtttcc	60
cacaataacc	tttaaaatag	caacagattc	agtctcaaaa	attgcttttc	atttgtagtg	120
gaaaatgaaa	gtggagaaca	tggaaacagca	atatttgnrc	tcttctcata	ggatgcagtt	180
acacacacat	atgactggaa	tcacttcaga	gtaaaaaaa	agtgggctgg	gtgcagtgcc	240
tcacacctgt	aatcccagca	ctttggggagg	ccaaggacag	gagcatcact	taaggccaga	300
agtttgagac	cagcctgggc	cacatagtga	gacctgtct	ctatgggcgg	ggtgggggtg	360
gggggcattg	taaaaaagca	gttgttcttt	tanaaggcat	cagagagccc	tntagtgacc	420



acgaagggga	gttaatgcag	agatgactcg	agacagagaa	gcagtcatga	gtgtttacaa	480
aggaaaaagt	gagggaggga	aagctctttt	ggttaacagc	atattttacaa	ttagttaact	540
gnattcttaa	atacttttaa	cctgagtaac	atttataaat	atgttatagg	aaacctcaca	600
gtcacaaagtc	acactagaat	ccatctgtcc	agtatctggg	ctttcccccac	accagaatcc	660
atctgtccag	tatctgggct	ttcccagtc	ttcctcttct	cataagttcc	caanggcagc	720
anaagtgtga	agcatgcaca	ccaaggaaaa	acgcattcca	gccc		764

&lt;210&gt; 435

&lt;211&gt; 834

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 435

agattttgtt	aattttccta	caaaaaatgg	atttgctact	aacaaaaacc	cctcctgatg	60
agataaagaa	cagtgttcta	cccattggtt	acagagcact	agaagctcct	tccattcaga	120
tccaggagct	ctgtctaaac	atcattccaa	cctttgcaaa	tcttatagac	tacccatcca	180
tgaaaaacgc	tttgatacca	agaattaaaa	atgcttgtct	acaaacatct	tcccttgctg	240
ttcgtgtaaa	ttcattagtg	tgcttaggaa	agattttgga	atacttggtt	aagtgggttg	300
tacttgatga	tatcctaccc	ttcttacaac	aaattccatc	caaggaacct	gcggctctca	360
tgggaatttt	aggtatttac	aaatgtactt	ttactcataa	gaagttggga	atcaccaaag	420
agcagctggc	cggaaaaagt	ttgcctcatc	ttattccctt	gagtattgaa	aacaatctta	480
atcttaatac	gttcaattct	ttcatttccg	tcataaaaaga	aatgcttaat	agattggagt	540
ctgaacataa	gactaaactg	gagcaacttc	atataatgca	agaacagcag	aaatctttgg	600
atataggaaa	tcaaatgaat	gtttctgagg	agatgaaagt	tcaaatattg	ggaatcagca	660
aattggcaaa	gtttttaaca	acattggagc	agaccttntg	actggcagtg	agtccgaaaa	720
taaagangac	gggttacaga	ataaccttaa	aagagcatcc	ttaccacttg	gaggaaaaac	780
caaaatttgc	caaaagaacc	aggaccggcn	cgaagctgg	aaaagccgca	ggct	834

&lt;210&gt; 436

&lt;211&gt; 812

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 436

acagaagtaa	agttttattac	atttgaaaca	atacagcaga	aacctcaaaa	gtttactcat	60
aaatatagtt	taattcttac	aaatcttctt	ttgaaaatgc	aattcatata	tgctgcaacc	120
tcagaagttt	gaatttgaaa	tgaaatatga	aggtagtagt	caggggaagtc	acatcagagt	180
gccttgtcaa	atatccaaac	aaatcagcac	atacctcttc	cttgatacag	gaggaaaaaa	240
gtgattctaa	atatatccaa	gtgaatgcag	aaaaatacat	tactatttga	ggcagaccat	300
gctaaaatat	aattttacaat	gattagtttg	cacttaagat	ggttaataac	gcattttaa	360
caatgaaatg	aagggttaagt	tgaattttgt	agtatttgc	cagtctctgt	actaaacaat	420
agttcatctg	aaaagtttgg	aaaaagcaaa	taacctgata	cttctcttta	tgcttatcat	480
tttctcactg	tcatcttaaa	tgcaaacaaa	tcaatacagc	atcaagattt	tttacaattt	540
aaaatgaaga	ctaatactc	atagactgng	taccatatag	tacttaatat	atgagcttgc	600
aatgaccatc	acctcaattt	tttaataaac	accaagatcc	acaagccaaa	ataaacattt	660
gattaaaaag	ttatgggtatt	caagataact	cagtttctct	tttctctttg	agattgggna	720
anggctgggt	cttttaaaaa	ccctggaaaa	gggagttggg	taaagaggga	aaaaaatcct	780
tcaangcttt	taaaaaaact	tcnactgggt	ta			812

&lt;210&gt; 437

&lt;211&gt; 842

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 437

gtggaagagg	cgtacctatt	tgcaaagtgc	agagcaggca	tggattgcca	attctggaac	60
agagcaaagc	cccaacttgc	cctccactgg	tgatgtcaca	cccacccatg	aagagcctgc	120
ctctaggggt	gttgaatgtt	gggtcacgaa	gatctcaacc	tggccaaaga	agagaaccca	180
gaaagatcat	cacagtttct	gtaaaagaag	atgtacacct	gaaaaaggca	gaaaatgcct	240
ggaagccaag	ccaaaaacga	gacagccaag	ccgatgatcc	cgaaaacatt	aaaacccagg	300
agcttttttag	aaaagttcga	agtatcttaa	ataaattgac	accacagatg	ttcaatcaac	360
tgatgaagca	agtgtcagga	cttactgttg	acacagagga	gcggctgaaa	ggagttattg	420
acctggctct	tgagaaggct	attgatgaac	ccagtttctc	tgtggcttac	gcaaaccatgt	480
gtcgatgtct	agtaacgctg	aaagtaccca	tggcagacaa	gcctggtaac	acagtgaatt	540
tccggaagct	gctactgaac	cgttgccaga	aggagtttga	aaaagataaa	gcagatgatg	600
atgtctttga	gaagaagcag	aaagaacttg	aggctgccag	tgctccagag	gagaggacaa	660
ggcttcatga	tgaactggaa	gaagccaagg	acaaaagccc	ggcggagatc	cattggcaac	720
atcaagttta	ttggagaact	cttttaaaact	caaaatgctt	gacttgaagc	catcattgca	780
tgactgtgtg	gtgaagctgc	ttaagaaccn	ttgatgaaga	atccctggaa	tggcctgtgt	840
cg						842

<210> 438  
 <211> 678  
 <212> DNA  
 <213> Homo Sapiens

<400> 438						
aaactngcan	tgtntgtntt	tattttgtnc	tttatatttt	caaagngaaa	agaaatanna	60
ctgagncaat	ntctttttgt	ntttttaaan	atttgnctta	tgtatttaca	ngccttaaag	120
nngctctaaa	gatntcaaga	gnattaanag	nactttnttc	agggnagcac	tntttttttt	180
ttaaacantt	nttgngtttc	tgtggnccac	annatttcct	tntgtntcaa	ngtnatgtat	240
gtnttgatna	cnatngngat	nttttaaan	ttntgaanca	agctgagagg	cnngcanaaa	300
gatntgange	cnnaaaaaaa	aaaatctttt	ttaccttgtn	caccccaaac	tttttcaa	360
ctggnctaaa	tgctntacct	taaaacanac	atgaggggca	tcttgaaggg	gagggaaant	420
tattttctctg	cntttctatn	atacangtng	tttacanaaa	ctgngaatta	naaaattaca	480
ctggnatttg	cngaccttaa	aataaattaa	aagtntctca	ctnttttttt	ttttgntaaa	540
cnttttttta	agnatgannc	cntgggttaa	aagaaaagnt	ttaaaccgaa	aataattttct	600
ataaataata	cctgggatttt	ggntttaggg	ccccgcctct	aaggnttgna	ggttactttt	660
ntccnangac	cttttttcc					678

<210> 439  
 <211> 826  
 <212> DNA  
 <213> Homo Sapiens

<400> 439						
gaccctttac	caacaaatga	aatgatgat	gatatatgca	agaaaccctg	tagtgtagca	60
cctaatagata	ttccactggg	ttctagtact	aacctaatga	atgaaataaa	tggagtttagc	120
gaaaaattat	cagccacgga	gagcattgtg	gaaatagtaa	aacaggaagt	attgccattg	180
actcttgaat	tggagattct	cgaaaatccc	ccagaagaaa	tgaaactgga	gtgtatccca	240
gctcccatca	cccttccac	agttccttcc	tttcttccaa	ctcttccaac	tcttccagct	300
tctctctctc	acactccagt	cattgttctt	gctgctgcca	ctactgttag	ttctccaggt	360
gctgccatca	cagtccagag	agtcctagag	gaggacgaga	gcataagaac	ttgccttagt	420
gaagatgcaa	aagagattca	gaacaaaata	gaggtagaag	cagatgggca	aacagaagag	480
atthtggatt	ctcaaaactt	aaattcaaga	aggagccctg	tcccagctca	aatagctata	540
actgtacca	agacatggaa	gaaacaaaaa	gatcggaccc	gaaccactga	agagatgtta	600
gaggcagaat	tggagcttaa	agctgaagag	gagctttcca	ttggcaaaagt	acttgaatct	660
gaccaggata	aatgagcca	gggttttcat	cctgaaagag	acccctntgg	cctaaaaaaa	720
gtgaaaagct	gtggaagaaa	atggagaaga	actgagccag	accgtaatgg	ggcctgaaag	780
ggttctgang	gtgaaggaat	agatgcttaa	ttcangcttc	cccaga		826

<210> 440  
 <211> 689  
 <212> DNA  
 <213> Homo Sapiens

<400> 440  
 aaatatttgt tctatgtatt tacaagcctt aaagttgctc taaagatttc aagagtatta 60  
 agagtacttt tctcagggta gcactttttt ttttttaaac aattccttga gttctgtggt 120  
 ccacagcatt tccttctgtt tcaatgttat gtatgttttg attactattg tgatttttta 180  
 aattttctga agcaagctga gaggcaggca gaaagatttg atgccaaaaa aaaaaaatc 240  
 tttcttacct tgttcacccc aaactttctc aaatctggac taaatgctat accttaaaac 300  
 aaacatgagg tgcattctga aggggagggg aattttattc tctgcttttc tattatacaa 360  
 gttgtttaca gaaactgcaa attaaaaaat taaactggca tttgcagtcc ttaaaataaa 420  
 ttaaaagttc tcaacttttt ttttttgcta aacatttttt taagtatgag tccttggtta 480  
 aaaaagaaaag attaaaacag aaaaatattt ctataaataa tacatgtatt ttggttttag 540  
 tgctcccgcc ctaagggttg aagtttactt ttatccagta cctttttcct ccatgatcac 600  
 ctttttttct ctttccctn ttccactcgg gcacacgtgg ggggtttctg cnanaattgg 660  
 cttgtctgca ctgngaattg gcnaaaacc 689

<210> 441  
 <211> 883  
 <212> DNA  
 <213> Homo Sapiens

<400> 441  
 ctttttatcc tggaccagga cctggggact tccccaatgc ttatggaacg cttttttacc 60  
 caagtcagcc ggtgtatcag tcagcaccta tcatagtgcc tacgcagcaa cagccgcctc 120  
 cagccaagag agagaaaaaa actataagaa ttcgggatcc aaaccaggga ggtaaagaca 180  
 taacagagga gattatgtct ggaggtggca gcagaaatcc tactccaccc ataggaagac 240  
 ccacgtccac acctactcct cctcagcagc tgcccagcca ggtccccgag cacagccctg 300  
 tggtttatgg gactgtggag agcgtcctc ttgtgccag caccctgtc actgcagcta 360  
 gcgaccagaa gcaagctcaa atagctataa ctgtaccaa gacatggaag aaaccaaaaag 420  
 atcggaacccg aaccactgaa gagatgttag aggcagaatt ggagcttaaa gctgaagagg 480  
 agctttccat tgacaaagta cttgaatctg aacaagataa aatgagccag gggtttctc 540  
 ctgaaagaga cccctctgac ctaaaaaaag tgaaagctgt ggaagaaaat ggagaagaag 600  
 ctgagccagt acgtaatggg gcttgagagt gtttcttgag ggtgaaggaa tagatgctaa 660  
 ttcaggcttc acagatagtt ctggtgatgg gggatcattt ccatttaaac cagaatnctg 720  
 gaagcctact ggtacttgaa ggtaagaaca gtatgaccag ggagtttctg gtggactttc 780  
 cagttcatgc ctggctgnat tccaaaancc naagggcctg gcttctatta anggatgngg 840  
 ttnttgacag gatcaaccaa ncccaaattg ccaatgggga act 883

<210> 442  
 <211> 777  
 <212> DNA  
 <213> Homo Sapiens

<400> 442  
 gctaaacatt tttttaagta tgagtccttg tttaaaaaga aaagattaaa acagaaaata 60  
 ttttctataa ataatacatg tattttggtt ttagtgctcc cgccctaagg tttgaagttt 120  
 acttttatcc agtacctttt tcctccatga tcaccttttt ttctctttcc cctctccac 180  
 tcgtgcacac gtggggggtt ctgcgagaat tggccttgct gcactgtgat tggcgaagac 240  
 gtgaaacttt ttaaaaaaat acttaaatgt tttcttttgt ttcattttgt gtatttgaaag 300  
 ttttagttat cctcagactc ctcttctgct tcccgcagcc acgtgaagaa tgccgtgaca 360  
 gatttcagag ccacgccctt cccattctgc tctgcagggt ccttgctgct ctcccatttg 420  
 tagaaggcat cctcggagat cacctcctcg tcatatagac aatcaaaaaa catccgcagc 480

aaattggcag	gttgatcaag	ttttactatc	gatgcttgta	gtgcataaag	tgcttgacgt	540
tccttctctg	natctgagtc	taggtacttg	agtaagatcg	gcactctctg	cttgaaacag	600
cagtgtccac	ttcttgaang	tagaagaagt	cggctattaa	tagctgggtt	acaaacagca	660
gtcattttaa	gctctaagga	atggtaggtg	aactontctg	ggatttcggc	taagaataag	720
ccctttancc	aggccaaaga	acctgggtcan	tcaattcgct	tttggccctc	caataaa	777

&lt;210&gt; 443

&lt;211&gt; 875

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 443

taacacagtg	aatttccgga	agctgctact	gaaccgttgc	cagaaggagt	ttgaaaaaga	60
taaagcagat	gatgatgtct	ttgagaagaa	gcagaaagaa	cttgaggctg	ccagtgtctc	120
agaggagagg	acaaggcttc	atgatgaact	ggaagaagcc	aaggacaaag	ccggcgagg	180
atccattggc	aacatcaagt	ttattggaga	actctttaa	ctcaaaatgc	tgactgaagc	240
catcatgcat	gactgtgtgg	tgaagctgct	aaagaacct	gatgaagaat	ccctggagtg	300
cctgtgtcgc	ctgctcacca	ccattggcaa	agacttggac	tttgaaaaag	caaagccacg	360
tatggaccag	tactttaatc	agatggagaa	aatttgtgaa	gaaagaaaaa	cctcatctag	420
gattcgggtc	atgcttcaag	atgttataga	cctaaggctg	tgcaattggg	tatctcgaag	480
agcagatcaa	gggcctaaaa	ctatcgaaca	gattcacaaa	gaggctaaaa	tagaagaaca	540
agaagagcaa	aggaaggtcc	agcaactcat	gaccaaagag	aagagaagac	caggtgtcca	600
gagagtggac	gaaggtgggt	ggaacactgt	acaagggggc	caagaacagt	cgggtactgg	660
acccctcaaa	antcctaaaa	atcactaagc	ctacaattga	tgaaaaaant	cactggacct	720
aaagccagct	aggcagctgg	ggaaaaggca	gcagtgggtg	accaangcaa	gtgaaactga	780
gccntacggc	aagtgtctnc	agttaaacag	atctntgncc	tgaaccttca	gaaccttang	840
gtcccgccat	cacgcctgta	aagttggatt	cccg			875

&lt;210&gt; 444

&lt;211&gt; 756

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 444

ctttttaaact	tgcaatgnnt	gnctttat	tggtctttat	attttcaaag	ngaaaagaaa	60
tagtactgag	tcaatttctt	tttggttttt	taaatatttg	gtctatgnat	ttacnagcct	120
taaagttgct	ctaaagattt	caagagtatt	aagagtactt	ttctcagggg	agcacttttt	180
ttttttttaa	caattcttgg	agttctgnng	nccacagcat	ttccttctgn	ttcaatgnnta	240
tgtatgtttt	gattactatt	gggatttttt	aaattttctg	aagcaagctg	anaggcaggc	300
ngaaagattt	gatgccnaaa	aaaaaaaaa	aatcttntnt	accttgggtc	ccccaactt	360
tntcaaactc	ggactaaatg	ctatacctta	aaacaaacnt	gaggggcatn	ttgaaggggg	420
gggaaattta	tttctctgnt	tttctattat	acnagttgnt	taccgaaact	gnaaattaaa	480
aaattaccct	ggcctttgca	ggccttaaaa	taaattaaaa	gntctcaact	tttttttttt	540
gccaaacatt	tttttaagta	tgagnccttg	nttaaaaaaga	aaagattnaa	nccgaaaata	600
ttttctataa	ataatacntg	nattttgggt	ttaaggctcc	cgcctaang	nttgaagggt	660
acttttatcc	nagnnccctt	tttccctcca	tgaanacccc	tttttttenc	ctttccctt	720
ttcccaactn	gggccccccc	tngggggggt	tttgcg			756

&lt;210&gt; 445

&lt;211&gt; 783

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 445

cagaaaatgg	tgcttacc	ctacatgttc	cctcaacagc	caaggactga	ggatgttatg	60
------------	----------	------------	------------	------------	------------	----

tttatatcag	ataatgaaag	ttttaaccct	tcattgtggg	aggaacagag	gaaacagcgg	120
gctcaagttg	catttgaatg	tgatgaagac	aaagatgaaa	gggaggcacc	tcccagggag	180
ggaattttaa	aaagatatcc	aacaccatac	ccagatgagc	ttaagaatat	ggtcaaaact	240
gttcaaacca	ttgtacatag	attaaaagat	gaagagacca	atgaagactc	aggaagagat	300
ttgaaaccac	atgaagatca	acaagatata	aataaagatg	tgggtgtgaa	gacctcagaa	360
agtactacta	cagtaaaaaag	caaagttgat	gaaagagaaa	aatatatgat	aggaaactct	420
gtacagaaga	tcagtgaacc	tgaagctgag	attagtcctg	ggagtttacc	agtgactgca	480
aatatgaaag	cctctgagaa	cttgaagcat	attgttaacc	atgatgatgt	ttttgaggaa	540
tctgaagaac	tttcttctga	tgaagagatg	aaaatggcgg	agatgcgacc	accattaatt	600
gaaacctcta	ttaaccagcc	aaaagtcgta	gcacttagta	ataacaaaaa	agatgatata	660
aaggaaacag	attctttatc	agatgaagtt	acacacaata	gcaatcagaa	taccagcaat	720
tggtcttctc	catctcggat	gtctgattca	gttctcttaa	tactgatagt	agtcaagaca	780
cct						783

<210> 446  
 <211> 866  
 <212> DNA  
 <213> Homo Sapiens

<400> 446						
agattacaac	acacatacaa	taagtgaatt	ttatcaaaat	acagcacatt	tcttctacta	60
tatccataaa	aatcaattcc	tatgtaaaata	gtactgaaaa	tcaactaaaa	tgagttaaaa	120
tttacaaga	gttgttaaag	ggtttcaatc	aaaattatta	aaactataca	gtacaataac	180
caattgataa	catcttgaaa	gaagtgcaat	atttgagttc	acatatTTTT	aaaagtgtcg	240
cctacttact	ctgactagca	agaatggaaa	gtgagtccaa	ctcacttttg	caaaaataat	300
gttggttggg	gttttaagct	agtcttataa	aagtcttaat	taaaatcaag	gttgataaac	360
aaagcataac	agattaaaaa	ttcccaaatt	gcatttctta	gtaaataaaa	atgaagtgca	420
ataaccaaat	attgctctaa	tgaaggttc	cagactagcc	tcaactaaac	agttattggg	480
cttctatggc	acttttttct	ggtccaaata	accatgcatt	aatccttacc	attacatgtt	540
actcaaattt	tatttgatta	catagaacaa	aaacaaataa	aattaatggg	ctggataaac	600
aaaattaata	aacctctatc	atcaaatatt	tgttacagta	actaggaaca	aagaaaggca	660
gtttggtggg	taaaacacta	ttacactgat	ccccatagga	aacctcttta	aagactctgg	720
aagtgttgag	ttcacattta	atggtacctg	tagaaacagn	cctttatttg	gacaccttta	780
cccactggca	ngccctaang	gacccatccc	tttgctctat	aacttttcac	aagcaattct	840
ctaatectgg	gccagtttnc	aaaagc				866

<210> 447  
 <211> 789  
 <212> DNA  
 <213> Homo Sapiens

<400> 447						
gtcacgttgg	aatgcaaatt	gagcacatca	ttgaaaacat	tgttgctgtc	accaaaggac	60
tttcagaaaa	attgccagag	aagtgggaga	gcgtgaaact	cctgtttgtg	aaaactgaga	120
aatcggtctg	acttcccatc	ttttcctcgt	ttgtcagcaa	ttgggatgaa	gccaccaaaa	180
gatctttgct	taataagaag	aaaaaagagg	caaggagaaa	acgaagagaa	agaaattttg	240
aaaaacaaaa	ggagaggaag	aagaagaggc	agcaggctag	gaagactgca	tcagttctta	300
gtaaagatga	tgtggcacct	gaaagtgggtg	atactacagt	gaagaaacct	gaatcaaaga	360
aggaacagac	cccagagcat	gggaagaaaa	aacgtggcag	aggaaaagcc	caagttaaag	420
caacaaatga	atccgaagac	gaaatcccac	agctgggtacc	aataggaaag	aagactccag	480
ctaataaaaa	agttagagatt	caaaaacatg	ccacaggaaa	gaagtctcca	gcaaagagtc	540
ctaateccag	cacacctcgt	gggaagaaaa	gaaaggcttt	gccagcatct	gagaccccaa	600
aagctgcaga	gtctgagacc	ccagggaaaa	gcccagagaa	gaagccaaaa	atcaaagaag	660
agcagtgaag	gaaaaaagtc	cttcgctggg	gaaaaaagat	gccgaagaca	gacttcaaaa	720
aagccagang	ccaggttttc	ccactcctag	taaatctgtg	agaaagcttt	ccacaccccc	780

aaaaaatgg

789

<210> 448  
 <211> 820  
 <212> DNA  
 <213> Homo Sapiens

<400> 448  
 caggattact tatggagggtt ttattatttn tattttatntt tgagactgag tcttgctctg 60  
 tcatcaggct ggagtgcagt ggctcactgc aacctccgcc tcccagggtc aagcaattct 120  
 cctgcctcag cctccctagt agctgggatt acagggtgtcc accaccatgc ccaattaatt 180  
 tttgtatntt tgggtacagac agggtttcac catgttggcc aggatggctc cgatctcggt 240  
 gacctgtgta tccgcctgcc tcggcctccc aaagtgtctg gattacaggc gtgagccacc 300  
 gccctggac tacttatgga ggttttaaaa aatcttttaa gtccaggcct gacgtttaga 360  
 gaaggttaca aaggcggcca ggtctgagt atttccaaaa agctctggag gcagcattga 420  
 ggtttccttc cagttgaatc actgacttta ggtcgactgg ggtactttgg gttttttggg 480  
 ccattttttg ggggtgtggg aagcttttct cacagattta ctaggagtgg tgaaaaactt 540  
 ggctctggc ttttttggag tctgtctcgc atcttttttc ccagcgaag gacttttttc 600  
 cttcactgcc tcttctttga tttttggctt cttctcttgg gcttttccct ggggtctcag 660  
 actctgcagc tttttggggg tcttcaanat gctggcaaaa gccttttctt ttcttccac 720  
 gagggggngc ctggggatta ggactctttt gctggggana cttcttttct tgnnggnang 780  
 tttttgaaac nntacttttt ccaatttagc ctggaggcct 820

<210> 449  
 <211> 936  
 <212> DNA  
 <213> Homo Sapiens

<400> 449  
 aaaagaagga aacagttact caactccaaa atatcattga ggctaattct cagcattacc 60  
 aaaaaaatat taatagtttg caggaagagc ttttacagtt gaaagctata caccaagaag 120  
 aggtgaaaga gttgatgtgc cagattgaag catcagctaa ggaacatgaa gcagagataa 180  
 ataagttgaa cgagctaaaa gagaacttag taaaacaatg tgaggcaagt gaaaagaaca 240  
 tccagaagaa atatgaatgt gagttagaaa atttaaggaa agccacctca aatgcaaacc 300  
 aagacaatca gatatgttct attctcttgc aagaaaatac attttagtaa caagtagtaa 360  
 atgaaaaagt caaacactta gaagatacct taaaagaact tgaatctcaa cacagtatct 420  
 taaaagatga ggttaacttat atgaataatc ttaagttaaa acttgaaatg gatgctcaac 480  
 atataaagga tgagtttttt catgaacggg aagacttaga gtttaaaatt aatgaattat 540  
 tactagctaa agaagaacag ggctgtgtaa ttgaaaaatt aaaatctgag ctagcagggt 600  
 taaataaaca gttttgctat actgtagaac agcataacag agaagtacag agtcttaagg 660  
 aacaccatca aaaagaaata tcagaactaa atgagacatt tttgtcagat tcagaaaaag 720  
 gaaaaattaa cattaatggg tgaattcaa ggtcttaang gacagtgtga aaacctaccg 780  
 ccaggaaaag caagaagcca ttttaaannt ntgagagntt acccagagga ttttggaat 840  
 ttcccaancn gaactggggg gaatctgctg ggaaaaatag gtcaggaggt cgaatcatgg 900  
 aaccaccagc aggcctttga ngcatgacc tgagca 936

<210> 450  
 <211> 806  
 <212> DNA  
 <213> Homo Sapiens

<400> 450  
 aactcaaaac agtgtaagt tcctatgctg ttagtactgt atcttgtcca cacctcaaac 60  
 aacagtgaga tctctgagca catgggtctgt acctcaacca cttttctatc accagggctc 120  
 agaatagttg ggcattttaa taaaatttgc taaatgaatg aaaaatccaa aataaatcat 180

gaagccattt	ataaatcaca	ccaatcttgc	ttgggttaaa	caatagaaag	taacactttt	240
gaaagagaag	gcaaacaggt	gtagagggg	caagaatgtg	agctcgagga	aaagacagct	300
acgaactgtg	tttttaacaa	ctcattattt	ggctactata	tttcccaatc	tattctaaca	360
ctaacaagaa	tctgtcta	taattgtgac	aacatctgca	aaaccatagt	tacctatttt	420
ttcttccaac	tcttttactg	aagacagagg	atcatttttt	acagaagggtg	attttgctaa	480
ggaatccttt	aatagtatca	actctgctct	cctatctcgt	aattcttttt	gntctagtag	540
tggtcttagg	ttttcatgtt	cctttataaa	acattttttt	ttttcattat	ggatttccact	600
tttgctacat	gtttgagata	cttctttcaa	cttgaattaa	aagaatctga	ttttcaagcc	660
ttggtttttc	attagcattc	ttcattttct	gaagatccag	actgcanggn	ctctttttct	720
ggactggaat	tcttctaact	cttttccttt	aagaagaacc	tttttcttgg	ntcataggcc	780
tcttcaatta	aggacttaag	gtcttt				806

&lt;210&gt; 451

&lt;211&gt; 909

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 451

ctgagctctt	ccagggcaag	aaatatgacg	ggccagaagt	ggatgtgtgg	agtctggggg	60
tcatTTTTata	cacactagtc	agtggctcac	ttccctttga	tgggcaaaac	ctaaaggaac	120
tgagagagag	agtattaaga	gggaaataca	gaattccctt	ctacatgtct	acagactgtg	180
aaaaccttct	caaacgtttc	ctggtgctaa	atccaattaa	acgcggcact	ctagagcaaa	240
tcatgaagga	caggtggatc	aatgcagggc	atgaagaaga	tgaactcaaa	ccatttggtg	300
aaccagagct	agacatctca	gaccaaaaaa	gaatagatat	tatggtggga	atgggatatt	360
cacaagaaga	aattcaagaa	tctcttagta	agatgaaata	cgatgaaatc	acagctacat	420
atttgttatt	ggggagaaaa	tcttcagagc	tggatgctag	tgattccagt	tctagcagca	480
atctttcact	tgctaagggt	aggcccagac	agtgatctca	acaacagtac	tggccagtct	540
cctcaccaca	aagtgcagag	aagtgtttct	tcaagccaaa	agcaaagacg	ctacagtgc	600
catgctggac	cagctattcc	ttctgtttgt	gcgtatcccc	aaaaggagtc	agaccagcac	660
tgcagatagg	tgaccctcaa	agaagatggg	aaatttcctt	ccnggaaatc	aaagtggcag	720
tgctggttgg	aaggaaangg	gaattgcttc	cagccaggtc	ccatgctttg	ggnaatgccca	780
ggtaatncct	aataaggcgg	atattcctgg	aacgccagga	aaagctccac	tggnccttag	840
tagtancnca	gcatctgggtg	ggaatgacnc	gaccgaaatt	ncttaagggt	tgcatgggag	900
agaacttcc						909

&lt;210&gt; 452

&lt;211&gt; 672

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 452

actgaaaaaa	agtgaanttt	naattatntt	gtnaatnnac	tnaaaaaacc	ncacncaagc	60
aatgttcaca	antntaaatt	naaacctttt	gcactaaaaa	ancacaaaan	ancaaacaca	120
aaaccacagg	cntgaactgn	aaacctgtct	taactatgaa	ctggncctta	ggttaattct	180
tannngccat	tcantatttc	nttccttggn	aactgtaatg	ttntagcacc	ggatgatctc	240
ccgnanaggt	nctagaanng	acngnctgcc	agnngnangga	gatncttcn	tatacaccac	300
ttnanacnca	taccgtcnan	tttcanaccn	accagacgg	nangcacatg	gngatggggc	360
cncacnccna	ctntnanggn	aacggaagta	gggcaggngg	cgcattnggtt	gcacatcttt	420
aatgtattgc	attcgnaaaa	aaaaggccag	ntttcnatcc	caggcgtgct	ctngacctna	480
gactttaatn	ncatgattta	naanatncag	nacgntattg	cctaaatntt	attctataca	540
tttccatcag	tggttnagga	aaacacttta	aatgcaactn	antccacat	cananncaact	600
gnggttacag	ntttagctca	ttgggcaatt	tttngaagca	atTTTTtnng	aaangctntt	660
ggaatgnccc	cc					672

&lt;210&gt; 453

<211> 834  
 <212> DNA  
 <213> Homo Sapiens

<400> 453

aagaagccaa	gaagtctgaa	gaaccaagaa	ttcggaaagaa	gccggggaccc	aagccccgat	60
ggaagaagaa	gcttcgttgt	gagagggagg	agcttcccac	catctacaag	tgtccttacc	120
agggctgcac	ggcgtgtac	cgaggcgctg	acggcatgaa	gaagcacatc	aaggagcacc	180
acgaggaggt	ccgggagcgg	ccctgcccc	accctggctg	caacaagggt	ttcatgatcg	240
accgctacct	gcagcgccac	gtgaagctca	tccacacaga	ggtgcggaac	tatatctgtg	300
acgaatgtgg	acaaaccttc	aagcagcggg	agcaccttct	cgtccaccaa	atgcgacatt	360
cgggagccaa	gcctttgcag	tgtgaggtct	gtgggttcca	gtgcaggcag	cgggcatccc	420
tcaagtacca	catgaccaa	cacaaggctg	agactgagct	ggactttgcc	tgtgaccagt	480
gtggccggcg	gtttgagaag	gccacaacc	tcaatgtaca	catgtccatg	gtgcaccgcg	540
tgacacagac	ccaggacaag	gccctgccct	ggaggcggaa	ccaccacctg	ggccaccgag	600
cccctctgtg	accacagacg	gccaggcggg	gaagcccgaa	cccacctgag	gacggcagtg	660
aggatgagca	cctctagcag	cctggacttc	gcagtggctg	tgtcaagcct	cacccttcgt	720
gtgcaccgcg	atgggagggg	cggaggggtg	cttgccgncc	ttggtgctgg	angcgggctt	780
ggtgtccggc	tcaagtagcc	ttctttgntc	ttgggaccag	tgggttattt	tccc	834

<210> 454  
 <211> 703  
 <212> DNA  
 <213> Homo Sapiens

<400> 454

cccgtgtaaa	taatttatta	caagcataac	atggagctct	tgttgcaacta	aaaagtggat	60
tacaaatctc	ctcgactgct	ttagtgggga	aaggaatcaa	ttatttatga	actgtccggc	120
cccaagtcac	tcagcgtttg	cgggaaaata	aaccactggg	cccagagcag	aggaaggcta	180
cttgagccgg	acaccaagcc	cgcctccagc	accaagggcg	ggcagcacc	tccgaccctc	240
ccatgcgggt	gcacacgaag	ggtgaggctg	acacagccac	tgcgaggtcc	aggctgctan	300
aggtgctcat	cctcactgcc	gtcctcaggt	gggttcgggc	ttcaccgcct	ggccgtctgt	360
ggtcacagag	gggctcggtg	gccaggtgg	tggttccggc	tccaggggca	gggccttgte	420
ctgggtctgt	gtcagcgggt	gcaccatgga	catgtgtaca	ttgaggttgt	gggccttctc	480
aaaccgccgg	ccacactggg	cacaggcaaa	gtccagctca	gtctcagcct	tgngtttggt	540
catgtggtac	ttgagggatg	cccgtgcct	gcactggaac	ccacagacct	cacactgcaa	600
aggcttggct	nccgaatgtc	gcatttgggg	gacgaaaaag	gtgcttccgc	tgcttgaaag	660
gnttggccca	attnggtaca	agatatagtt	ccccaccttt	ggg		703

<210> 455  
 <211> 825  
 <212> DNA  
 <213> Homo Sapiens

<400> 455

atggcaatca	ggaaaagggtg	ccagaacccg	aggctttgga	ccttccagat	gacttgaacc	60
ttgacagtga	agacaagaat	ggtggtgagg	acaccgacaa	tgaagaagga	gaagaagaga	120
atccttttga	gataaaagaa	aaaccagaag	aagcagggtca	tgaagctgag	gaaagaggag	180
agaccgagac	cgaccagaac	gaaagtcaga	gtccacagga	gcctgaggaa	ggccccagtg	240
aagatgacaa	ggcagaaggg	gaagaggaaa	tgacacaggg	agctgatgac	caagatggag	300
atgctgctca	gcatcctgaa	gaacactctg	aggagcagca	gcagtctgtg	gaggaaaaag	360
acaaggaagc	cgatgaagaa	ggtggagaga	atggccctgc	tgaccaaggt	ttccagcccc	420
aggaggaaga	agaacgggag	gactctgata	cagaggagca	ggtgccagag	gctttggaga	480
ggaaggagca	tgctcctgt	gggcagactg	gtgtggagaa	catgcagaac	acacaggcca	540
tggagctggc	tggggccgca	cctgagaagg	agcaggggaa	agagggaacac	ggaagtggag	600



ctgcagatgc	aaaccaggca	gaaggccatg	aatcgaat	cattgcccag	ttggccttcc	660
agaacacacc	aggaaaaaca	cacagagttt	taagaggaaa	cctgggcagg	cttgacaatt	720
gaacgttnca	tgggtgatca	caattgaacg	tgtgcacaag	aagctganga	cttgtggaat	780
ccggacaggc	attgccaacc	aggggcccagc	ttaacaagcc	ccagg		825

&lt;210&gt; 456

&lt;211&gt; 740

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 456

acatcaacaa	cagtgttata	tgttttaata	gttttcagaa	tataagctgc	atagcttttt	60
agaataaaaa	atgatataac	ttcaggtaca	tgctttggga	cacttgggta	aacaaggaat	120
ctgtgtcttt	gatgaccacc	tcaaaagggt	cgcagacttc	acagtgtaac	ttggaaacag	180
acaaggagat	agatgattac	atcatgacat	actgcctaca	aaagaacatt	ctgacagaac	240
attaagtaga	acagagcaca	cagtttcaag	tattcagcac	tgctttctgg	ccaagtaaaa	300
actgcctaaa	gatcagtttc	tttcgactgg	aaaaaataga	tggagctgct	gagttctgga	360
cacagcgttt	ctttccaga	atgagactgg	ctcagtcag	cttgaaagca	gtgtgaggaa	420
tcactcttcc	ccttgactgt	taagaaaaaa	aaaaatgaac	taaacaata	aattactaca	480
acaacaggga	ccatggcact	gaatgaaata	aaggggcaat	caccttcca	tcattgcata	540
gtctcccgaa	gcagcaagtg	tgaaagagga	tactgaaaag	ccacttcatt	tttacacagc	600
ccaagggatc	gtttttatng	atgacctggg	cacctataat	gnccagttgc	tttatgagaa	660
ccacacacac	accacattct	tcctaccctn	taagagaagg	taggttcctt	tcacaataag	720
gaaaaccccc	ccttatactt					740

&lt;210&gt; 457

&lt;211&gt; 726

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 457

aaaatgtagt	caactttatt	ctccttaaac	cacaaaatag	agtctttggt	tgtacaaaca	60
tcactagtta	cagtctcgcc	gaggtctcgg	ctgggggtggg	gcagttagtt	agtcacaggc	120
cagaactcct	gtgggggtctc	tttaaaatgc	taacaccag	gttaaaagac	ttggggcaag	180
ggtggtgctg	gagctggcag	ggccccacc	ccaagtctgg	gggaggtgcc	tgctcctcta	240
ggagggcaca	ggggccaggc	cacggcgccc	aggccttacg	gggcggcgcc	tgctgcacag	300
tgccacatct	tcagggccca	cagcgccggg	tgagggcctg	cccagaagca	ccagagccac	360
ttctccatcc	tcctcctgcg	ggccagggct	gggagatggt	tccagggacc	tcaactcctc	420
agcaaagtcc	ggtgacaggc	gtcccgggga	ggtgctggtc	tgggggcccga	ggtcttccac	480
aggggtgggc	gacggggtgg	gcccagggga	aggggcctcg	gccagtcgct	ccaggggccc	540
ccgcgtgccc	cggcctttct	gggacctgct	gaggaccatc	tgtgctcgga	gagcgtcctg	600
ttccaatgac	ttcatcctgg	ctggccttca	caagcgcacg	cttctcggnc	ttcagggccc	660
cggacttcgg	caaggggaca	nggcacgctt	cgggtgccgg	tggcttccgg	actttggacg	720
ccgcaa						726

&lt;210&gt; 458

&lt;211&gt; 870

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 458

cgcggcctct	ccgcgggtg	taccacctgt	cgcggcgcga	gacctctggt	gaaagaaaag	60
atgttgtccc	ggttaagagt	agtttccacc	acttgtactt	tggcatgtcg	acatttgcac	120
ataaaagaaa	aaggcaagcc	acttatgctg	aacccaagaa	caaacaaggg	aatggcattt	180
actttacaag	aacgacaaat	gcttgggtctt	caaggacttc	tacctcccaa	aatagagaca	240

caagatat	tc aagcctt	acg atttcat	aga aacttga	aga aaatgact	ag ccctttg	gaa 300
aaatata	tct acataat	ggg aataca	agaa atgaga	aattgt	ttta tagaata	actg 360
caagatg	aca ttgagag	ttt aatgcc	aatt gtatata	cac cgacgg	ttg tcttg	cctgc 420
tcccagt	atg gacacat	ctt tagaag	acct aaggg	attat ttatttc	gat ctgag	acaga 480
ggtcatt	gtta gatca	aattgt ggata	actgg ccagaaa	atc atgtta	aggc tgttg	tagtg 540
actgatg	ggag agaga	aattct gggct	ccttga gatct	gggtg tctat	ggaat gggaa	ttcca 600
gtaggaa	aac tttgtt	gnat cagctt	gtgc aggaata	cgg cctga	tagat gcctg	ccagt 660
gtgtatt	gat gtggg	aactg ataata	tatcgc actctt	aaaa gancc	atttt acatg	ggcctt 720
gaccaga	aac gagat	cgcac ccacag	ttga tganc	tgatg gatgag	ttta tgaa	agcctt 780
actgac	agat atggc	cggaa cacctt	tatt cagtt	cgaag acntt	ggaaa tcata	angcc 840
ttcaggt	ctt tgagaa	agtc cgggg	aaaaa			870

&lt;210&gt; 459

&lt;211&gt; 761

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 459

aaatgta	aga tattt	attaa ataaaa	aggt tacact	atga ttttt	tataca ctg	ttgaaaa 60
caatgac	ttt tattt	actta aagcc	agcag tagtt	cccat tact	ctcata atg	ttatagt 120
taaggct	tga tttagt	tcca gaaaata	aat agggta	aatt tttat	attt ccct	agctct 180
gtctgct	tata gggaa	tttca gagtat	gaag gtaag	atgaa gcaga	tatat aaga	acattt 240
ttagata	atg acaat	ttttt cttaaa	aattt ggtga	aaatt tagt	ttctt tcaaa	attct 300
gtacttc	tctat ccata	aaagt aaattt	tctat tttag	tagct ctgta	agaac tagg	ccagag 360
aagagt	tatta ccata	aatag taaat	agcaa atact	tttggc aagt	ctgaat tag	agtacaa 420
gtgaaga	cat tcacaa	acac actttt	taca tctct	gggat gtgg	tacggg ctg	tatgtta 480
gaattaa	agc atcaca	acta tctgat	tgtta ggg	tgtct ggg	caatgca at	caatcaac 540
acgtct	accc caacag	atgt ggag	acccat ggaaaa	ata catca	accaa agt	ggtcagg 600
gagaaca	aaaa ccccag	aaaa caccct	taaa actga	agaca ttat	ctctt tgg	ctgaaa 660
aaaggg	gttc cctgg	agcac angaa	aggt ttat	caagg aggt	tctat tcn	gtaatca 720
caggaag	gct tgatg	canat tcctg	gccat tcata	accca t		761

&lt;210&gt; 460

&lt;211&gt; 876

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 460

ctgagct	cct gaagc	gcct aaggag	taca ctgtg	cgtt cacttt	tcca gaccccc	ac 60
cactcag	ccc tccagt	gctg ggtct	gcatg gtgtg	acatt cggct	accag ggacag	aaac 120
cactctt	ttaa gaact	tggt tttgg	catcg acatg	gattc aaggat	ttgc attgt	gggcc 180
ctaattg	gtgt gggga	agagt acgct	actcc tgctg	ctgac tggca	agctg acacc	gacct 240
atgggg	aaat gaaaa	gaac caccg	gtga aaatt	ggctt cttca	accag cagt	atgcag 300
agcagct	gcg catg	gagg acgcc	actg agtac	ctgca ggggg	cttc aacct	gcct 360
accagg	atgc ccgca	agtgc ctggg	ccgct tcggc	cctgga gagt	cacg ccac	catcc 420
agatctg	caa actct	ctgggt ggtc	agaagg cgcga	gttggt gttt	gctgag ctgg	cctgtc 480
gggaac	ctga tgtct	catc ttgg	acgag caacca	ataa cctg	gacata gagt	ctattg 540
atgctct	tagg ggagg	ccatc aatga	ataca aggg	tgtgt gatc	gttgat agcc	atgatg 600
cccga	ctcat cacag	aaacc aattg	ccagc ttgt	gggtg tggag	gaaca gagt	ggtagc 660
ccaat	cgat gtg	acttt gaag	actaag cggg	aggtg ttgga	agccc tggg	tgaagt 720
catggg	cagc cnggc	cccg naagt	gaagc ttnct	tttc agaag	tncc gag	agacat 780
aattggg	ggg gcct	aaaann cctct	gggg cttcc	cttct tttga	anaat gctnt	gggnct 840
gcaantg	act tggca	acccat ttagg	ccct taaag			876

&lt;210&gt; 461

&lt;211&gt; 689

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 461

```

gcaaacaaga tccatttagt ggggaagagg ggactattaa aagctgctag aaaactgaat      60
aaagcaaatac aagactgaga acagttccaa ctcccatcaa tctccaaaca gtgacaggtc      120
ggcagcaact cctttccttt atttcttccc cttgtaaagg gaaattcaag ttcagcagca      180
ttccttttct gccccaagtc ctcaaccaga caagaggctg caggcaccaa atcttgggct      240
ggataatggc aaaggcctca gaagctcacc tccagctctg agcttcaaca gctgtttgta      300
ccagtgaagtc agcattaaat ccaccagaaa agaacagcac caccctaaaga ctggggggca      360
gctggggcctg aagctgtagg gtaaatcaga ggcaggcttc tgagtgatga gagtcttgag      420
acaataggcc acataaactt ggctggatgg aacctcaca taaggtggtc acctcttggt      480
tgtttagggg gatgccaagg ataaggccag ctcaattata tgaagagaag cagaacaaac      540
aaagtctttc agagaaatgg atgcaatcag aagtgggatc cccggnaca tcaaggtcac      600
actccacctt catgtgcctg aaatggttgc caggtcagct gcaggcccan aggcagtcct      660
canaaggaag gggagaccac agaggactt

```

&lt;210&gt; 462

&lt;211&gt; 840

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 462

```

aggagccttt ggagttccat gccaaagcggc cttggcgccc cgaggaggca gtagaagatc      60
cggacgagga ggatgaggat aatactagtg aagccgagaa tgggttctcc ctggaggaag      120
tgttacggct cggaggcacc aagcaagatt acctatgct ggctactttg gatgagaatg      180
aggaagtgat agatggaggc aaaaaaggag caatcgatga ccttcagcaa ggtgaattgg      240
aagcatttat tcaaaatctt aatttggcga agtatacaaa agcttcttta attgaagaag      300
atgaaccagc tgaaaaagaa aattccagca aaaaagaagt aaaaatacct aaaaataata      360
ataaaaatac agcagaaagt caaaggacat cagttaataa ggtgaaaaat aagaataggc      420
cagaaccaca ttctgatgag aatggcagta ccacaccgaa agtaaaagaa gataaacaga      480
acatctttga attttttgag agacagactt tgttacttag gcctggaggc aaatggtatg      540
atctggagta cagcaatgaa tattctttga aacccagcc tcaggatgtt gnatctaagt      600
acaaaaccct tgctcagaag ctgtatcagc atgaaatcaa cttattcaaa agtaagacga      660
atagtcaaaa gggagcctct tctacctgga tgaaaggcaa ttgtgtcatc ggggaccact      720
aggtgacagg atggcagcca ttgattcttc ttattcagga tgatgcccg tccaccact      780
ttcagnttgt agnaaactct tggggaaccc ttggtaaaaa ggaanggcna caaacacga      840

```

&lt;210&gt; 463

&lt;211&gt; 784

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 463

```

agatgtaagt agaattttta tctataatth acattaataa ctcatttcct ttgtttttta      60
gttttttgag tggttttaat cctcttcttt ttaaaatgtt tcttttcttt gatgatactt      120
tttgcatctc tgttgtgtag ccagtcacac cgttcagcct cccatctaag ctgtttgaga      180
cttgcatatc ctttgttagc catggcatc atgccaatgt tatcaaatc ggatcccata      240
ttttcatcca atagatggcc aaactcttca gcagatacaa ataggctgga atcatttaag      300
tttcttttct ttttcttggt cccttgaaat gagccagcaa agtcaaaatc atctgtacct      360
tttctcttgc ttttcttagt actgactttg gagggtgactt caagttcttg aacactctca      420
ctttcatcat ctaacacatc catgaatgtt cctccatctt catcaacttc agcaaattct      480
tcatcatcca tacttcctaa agaaacttca tcgtcatcca ggttaccaag ttcacatca      540
ctaccttctg aatcttcac taatgtgtta tccttagctc cttttggtct ctttttcacg      600

```

tttccagcaa	aaatccatat	catcctttnc	agagctgaaa	cagttatcat	cttcaaagt	660
gtcaatcagc	tcttcaaatt	ctttcatcat	ccacgtcctt	ctaatacttt	cttcaatctg	720
catccccgtt	tttggnntct	cttttaanca	gcaacttttt	ttatnaaacc	ctgggggaaa	780
aaac						784

<210> 464  
 <211> 850  
 <212> DNA  
 <213> Homo Sapiens

<400> 464						
caggcatcgg	ccaccggaac	agcctggaga	gcctctcttc	catcgaccgg	gagctgagcc	60
ctgagggccc	aggcaaggag	aaggagctgc	ctggacagac	cctgcactgg	gggcccagg	120
ccacagaagc	cgaggtcgg	ggtctgcagc	ccctgaagct	ggactaccgc	gccctggccg	180
ccgtgcccag	cgctggcagc	gtgcagaggg	taccgtctgg	agcagctgga	gggaagatgg	240
ctgaatctcc	ctgctcccc	agtggccagc	agccgccctc	cccgccttct	ccggatgagc	300
tgcccgccaa	tgtgaagcag	gcctacagg	ccttcgcggc	cgtgcccact	tctcaccgc	360
ctgaggatgc	ccctgcccag	ccccccacgc	ctgggcctgc	agcctccccg	gagcagctgt	420
ccttcgggga	gcggcagaag	tactttgagc	tggaggtgcg	cgtgcccag	gccgagggcc	480
cccctaagcg	ctgtccctg	gtgggtgctg	acgacctgcg	gaagatgcag	gaggaggaa	540
ccagaaaact	acagcagaag	agagcgcaga	tgctgcggga	ggcggcagaa	gctggggccg	600
aagcgaggct	ngccctggac	ggggagacgc	tggcgaggga	ggaacaggan	gatgagcagc	660
caccctgggc	cagcccagac	cccacttaag	gcagaacccg	gcgtcccccc	ggccctggaa	720
gtggcgcccc	ggtgcggacg	gncaaaagct	gaacggggcc	ancaggaaacc	ggttgccctt	780
canagtnccg	gaccacccgg	gacccancg	tgccctggtc	ccttgcccaa	cttcggggcc	840
ctggaaggcc						850

<210> 465  
 <211> 759  
 <212> DNA  
 <213> Homo Sapiens

<400> 465						
aaaatgtagt	caactttatt	ctccttaaac	cacaaaatag	agtcttttgt	tgtacaaaca	60
tcactagtta	cagtctcgcc	gaggtctcgg	ctggggtggg	gcagttagtt	agtcacaggc	120
cagaactcct	gtgggtctc	tttaaaatgc	taacacccag	gttaaaagac	ttggggcaag	180
ggtggtgctg	gagctggcag	ggccccacc	ccaagtctgg	gggaggtgcc	tgctcctcta	240
ggagggcaca	gggcccaggc	cacggcgccc	aggccttacg	gggcggcggc	tgctgcacag	300
tgccacatct	tcagggccca	cagcgccggg	tgagggcctg	cccagaagca	ccagagccac	360
ttntccatcc	tcctcctgcg	ggccagggt	gggagatggt	tccagggacc	tcaactcctc	420
agcaaagtcc	ggtgacaggc	gtcccgggga	ggtgctggtc	tgggggccga	ggtcttcac	480
aggggtgggc	gacggggtgg	gcgcagggga	aggggcctcg	gccagtcgct	ccaggggccc	540
ccgcgtgccc	cgccctttct	gggacctgct	gaggaccatc	tgggctcngg	aaagcgtcct	600
tgttccaatg	acttcacctc	ggctgccctt	cacagngcac	gcttntcggc	ttcagggccc	660
ggagcttttg	canggggaca	aggcaacgct	tcgggtgccc	ggtgggttcc	ggacttttga	720
acgcgccaan	ccggttcctt	gngggcgccc	cgtttcaac			759

<210> 466  
 <211> 1240  
 <212> DNA  
 <213> Homo Sapiens

<400> 466						
gtggtagtgg	tgccggagct	ggaggcggag	gcattgttgg	tagtggcggt	ggaggagggg	60
gcactggaag	tacaggtcca	gggtatagct	tcccacacta	tggatttctt	acttatggtg	120

ggattacttt	ccatcctgga	actactaaat	ctaattgctgg	gatgaagcat	ggaaccatgg	180
acactgaatc	taaaaaggac	cctgaagggt	gtgacaaaag	tgatgacaaa	aacactgtaa	240
acctcttttg	gaaagttatt	gaaaccacag	agcaagatca	ggagcccagc	gaggccaccg	300
ttgggaatgg	tgaggctcact	ctaactgtatg	caacaggaac	aaaagaagag	agtgtctggag	360
ttcaggataa	cctcttttcta	gagaaggcta	tgcagcttgc	aaagaggcat	gccaatgccc	420
ttttcgacta	cgcggtgaca	ggagacgtga	agatgctgct	ggccgtccag	cgccatctca	480
ctgctgtgca	ggatgagaat	ggggacagtg	tcttacactt	agcaatcatc	caccttcatt	540
ctcaacttgt	ggggatctta	ctagaagtca	catctggttt	gatttctgat	gacattatca	600
acatgagaaa	tgatctgtac	cagacgcctt	tgcacttggc	agtgtactact	aagcaggaag	660
atgtggtgga	ggatttgcctg	agggctgggg	ccgacctgag	ccttctggac	cgcttgggta	720
actctgtttt	gcacctagct	gccaagaag	gacatgataa	agttctcagt	atcttactca	780
agcacaiaaaa	ggcagcacta	cttcttgacc	acccaacgg	ggacggtctg	aatgccattc	840
atctagccat	gatgagcaat	agcctgccat	gtttgctgct	gctggtggcc	gctggggctg	900
acgtcaatgc	tcaggagcag	aagtccgggc	gcacagcact	gcacctggct	gtggagcacg	960
acaacatctc	attggcaggc	tgcttgcctc	tggaggggtga	tgcccatgtg	gacagtacta	1020
cctacgatgg	aaccacaccc	ctgcatatag	cagctgggaa	agggctccacc	aggctggcag	1080
ctcttcttaa	agcagcagga	gcagatcccc	tggtgggaga	ctttgagccc	ttctatgacc	1140
tggatgactc	ttgggaaaat	gcaggaaaag	gattgaagga	gttggngctg	aancacgcct	1200
tttaganatg	ggcnccaac	tggcaggnat	ttggcctatt			1240

&lt;210&gt; 467

&lt;211&gt; 885

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 467

gtgccggagc	tggaggcgga	ggcatgtttg	gtagtggcgg	tggaggaggg	ggcactggaa	60
gtacagggtcc	agggatatagc	ttcccacact	atggatttcc	tacttatggg	gggattactt	120
tccatcctgg	aactactaaa	tctaattgctg	ggatgaagca	tggaaacctg	gacactgaat	180
ctaaaaagga	ccctgaagg	tgtgacaaaa	gtgatgacaa	aaacactgta	aacctctttg	240
ggaaagtatt	tgaaaccaca	gagcaagatc	aggagcccag	cgaggccacc	gttgggaatg	300
gtgagggtcac	tctaactgtat	gcaacaggaa	caaaagaaga	gagtgctgga	gttcaggata	360
acctctttct	agagaaggct	atgcagcttg	caaagaggca	tgccaatgcc	cttttcgact	420
acgcggtgac	aggagacgtg	aagatgctgc	tggccgtcca	gcgccatctc	actgctgtgc	480
aggatgagaa	tggggacagt	gtcttacact	tagcaatcat	ccaccttcat	tctcaacttg	540
tgagggatct	actagaagtc	acatctggtt	tgatttctga	tgacattatc	aacatgagaa	600
atgatctgta	ccagacgccc	ttgcacttgg	cagtgatcac	taagcaggaa	gatgtgggtg	660
aggatttgc	gagggtcggg	gcccgcactg	agccttcttg	acccgcttgg	gtaactctgg	720
tttgacaccta	gcttgcccaa	agaaggacat	gataaagttc	tcaagtatct	tacttaagcn	780
caaaaanggc	agcactactt	tnttgaccac	ccccaacggg	ggacggtctt	gaatgccatt	840
catttaagcc	atgatgagcc	ataagcctgg	catggtttgc	tgctg		885

&lt;210&gt; 468

&lt;211&gt; 748

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 468

gcaaatcaga	gaaataacca	cattagaaaa	agcaatatgc	cttttttttt	aaaatggcac	60
atcaagtgac	tctcatttta	aaatatctct	tttcttaacc	cttaatttga	atgcaaaatg	120
atgctgtgg	cagaagggaat	gccagggtgg	gaccgtgata	cctttaatga	caataggaac	180
gtagcagagg	gacaacagca	atgacaacag	aaagcagctg	tgatccagca	gcagctggca	240
aagcttagta	agcaacctca	tccccagatg	catccgctca	gccagtgttg	tgattgctag	300
atactatctg	taagtgaacc	aaactaaaa	tcatthtatga	accaagaaag	gaagccaagt	360
tgaaaaggct	tcgagttaaa	tcgagaatga	ttcaggcggg	ccggctctct	gagcaccttt	420

ggatgcactt	cagcttctgt	cttgtggaaa	cgcgtggaat	tttagggctt	tggtttacac	480
ggtgtgggaa	attgtcagca	ggctaaattt	tgcttcttag	aggctcttcc	tgcccataat	540
catggggcat	tttgttgaga	gttagcagtg	aggcaccact	ggtcagagac	tcggtaaagc	600
tgagtttgcg	gaaggatgtc	tccacgccgc	ttgtcgcaga	cactgtcact	ggcttcggag	660
ctcgnctatt	tgctgccttg	tggaggcagg	cgaaanaagc	agcgagtggg	ccctgaaaag	720
gnnggcnttc	actgggctgg	aaggcttg				748

&lt;210&gt; 469

&lt;211&gt; 770

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 469

gcaaatcaga	gaaataacca	cattagaaaa	agcaatatgc	cttttttttt	aaaatggcac	60
atcaagtgc	tctcatttta	aaatatctct	tttcttaacc	cttaatttga	atgcaaaatg	120
atgctgtgg	cagaaggaat	gccaggtggc	gaccgtgata	cctttaatga	caataggaac	180
gtagcagagg	gacaacagca	atgacaacag	aaagcagctg	tgatccagca	gcagctggca	240
aagcttagta	agcaacctca	tccccagatg	catccgctca	gccagtgttg	tgattgctag	300
atactatctg	taagtgaacc	aaactaaaa	tcatttatga	accaagaaa	gaagccaagt	360
tgaaaaggtc	tcgagttaaa	tcgagaatga	ttcaggcggg	ccggctctct	gagcaccttt	420
ggatgcactt	cagcttctgt	cttgtggaca	acgcagtggg	attttagggc	tttggtttac	480
acgggtgtgg	aaattgtcag	caggctaaat	tttgccttct	agaggtcctt	cctgcccata	540
atcatggggc	attttggtga	gagntagcag	tgaggcacca	ctggtcagag	acttcggtaa	600
agctgagttt	gcgggaaaag	atgtnttcca	cgcgccttnt	cgcanacact	ggcactgnct	660
tgggagctcn	gctattttgc	ttgcccttgt	ggangcaggc	caaaaanaagc	caacgaatgg	720
ggccctgaaa	aggngggcct	tcantctggc	ttggaagctt	gcctnggatc		770

&lt;210&gt; 470

&lt;211&gt; 892

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 470

agagtgtctg	agttcaggat	aacctctttc	tagagaaggc	tatgcagctt	gcaaagaggc	60
atgccaatgc	ccttttctgac	tacgcggtga	caggagacgt	gaagatgctg	ctggccgtcc	120
agcgccatct	cactgctgtg	caggatgaga	atggggacag	tgtcttacac	ttagcaatca	180
tccaccttca	ttctcaactt	gtgagggatc	tactagaagt	cacatctggt	ttgatttctg	240
atgacattat	caacatgaga	aatgatctgt	accagacgcc	cttgcaactg	gcagtgatca	300
ctaagcagga	agatgtggtg	gaggatttgc	tgagggctgg	ggccgacctg	agccttcttg	360
accgcttggg	taactctgtt	ttgcacctag	ctgcccaga	aggacatgat	aaagtcttca	420
gtatcttact	caagcaciaa	aaggcagcac	tacttcttga	ccaccccaac	ggggacggtc	480
tgaatgccat	tcacttagcc	atgatgagca	atagcctgcc	atgtttgctg	ctgctggtgg	540
ccgctggggc	tgacgtcaat	gctcaggagc	agaagtccgg	gcgcacagca	ctgcacctgg	600
ctgtggagca	cgacaacatc	tcattggcag	gctgcctgct	cctggagggt	gatgcccattg	660
tggacagtac	tacctacgat	ggaaccacac	ccctgcata	agcagctggg	aaagggtcca	720
ccaggctggc	agctcttctt	aaagcagcag	gagcagatcc	cctggtggga	gactttgagc	780
ccttctatga	cctggatgac	tcttgggaaa	atgcaggaaa	aggattgaag	gagttggnc	840
ggaancacgc	cttttagana	tgggcncca	actggcagg	atttggccta	tt	892

&lt;210&gt; 471

&lt;211&gt; 759

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 471

gcaaatacaga	gaaataacca	cattagaaaa	agcaatatgc	cttttttttt	aaaatggcac	60
atcaagtgc	tctcatttta	aaatatctct	tttcttaacc	cttaatttga	atgcaaaatg	120
atgctgtggt	cagaaggaat	gccaggtggc	gaccgtgata	cctttaatga	caataggaac	180
gtagcagagg	gacaacagca	atgacaacag	aaagcagctg	tgatccagca	gcagctggca	240
aagcttagta	agcaacctca	tccccagatg	catccgctca	gccagtgttg	tgattgctag	300
atactatctg	taagtgaacc	aaactaaaat	tcattttatga	accaagaaaag	gaagccaagt	360
tgaaaaggtc	tcgagttaaa	tcgagaaatga	ttcaggcggg	cgggctctct	gagcaccttt	420
ggatgcactt	cagcttctgt	cttgtggaca	acgcagtggg	atttttagggc	tttggtttac	480
acgggtgtggg	aaattgtcag	caggctaaat	tttgccttct	agaggtcctt	cctgcccata	540
atcatggggc	attttgttga	gagtttagcag	tgaggcacca	ctggtcagag	actcggtaaa	600
gctgagtttg	cggaaggatg	tctccacgcc	gctgtccgca	gacactgtca	ctgntcggga	660
gctcgtctat	ttgctgcctt	gtggaggcag	gcgananagg	caacgagtgg	gccctgaaaa	720
gnggtcttca	ctgggctgga	agcttgntcg	gatcacttt			759

&lt;210&gt; 472

&lt;211&gt; 852

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 472

gtggtagtgg	tgccggagct	ggaggcggag	gcatgttttg	tagtggcggt	ggaggagggg	60
gcactggaag	tacagggtcca	gggtatagct	tcccacacta	tggatttcct	acttatgggtg	120
ggattacttt	ccatcctgga	actactaaat	ctaattgctgg	gatgaagcat	ggaaccatgg	180
acactgaatc	taaaaaggac	cctgaagggt	gtgacaaaag	tgatgacaaa	aacactgtaa	240
acctcttttg	gaaagttatt	gaaaccacag	agcaagatca	ggagcccagc	gaggccaccg	300
ttgggaatgg	tgaggtcact	ctaacgtatg	caacaggaac	aaaagaagag	agtgtctggag	360
ttcaggataa	cctctttcta	gagaaggcta	tgagccttgc	aaagaggcat	gccaatgccc	420
ttttcgacta	cgcggtgaca	ggagacgtga	agatgtctgt	ggccgtccag	cgccatctca	480
ctgtctgtgca	ggatgagaat	ggggacagtg	tcttacactt	agcaatcatc	caccttcatt	540
ctcaacttgt	gagggatcta	ctagaagtca	catctgggtt	gattttctgat	gacattatca	600
acatgagaaa	tgatctgtac	cagacgccct	ttgcacttgg	cagtgtatcac	taagcaggaa	660
gatgtggttg	aggatttgct	gaagggtctg	ggcccgacct	tgagcctttc	tggaccgcgt	720
tgggtaactc	tgttttgcac	cctaacttgc	caaagaaggg	cattgataaa	ggtcttcaag	780
tatcttactt	cagcccaaaa	anggcagcac	tacttntttg	accaccccaa	cgggggacgg	840
gcttgaatgc	ca					852

&lt;210&gt; 473

&lt;211&gt; 804

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 473

gcaaatacaga	gaaataacca	cattagaaaa	agcaatatgc	cttttttttt	aaaatggcac	60
atcaagtgc	tctcatttta	aaatatctct	tttcttaacc	cttaatttga	atgcaaaatg	120
atgctgtggt	cagaaggaat	gccaggtggc	gaccgtgata	cctttaatga	caataggaac	180
gtagcagagg	gacaacagca	atgacaacag	aaagcagctg	tgatccagca	gcagctggca	240
aagcttagta	agcaacctca	tccccagatg	catccgctca	gccagtgttg	tgattgctag	300
atactatctg	taagtgaacc	aaactaaaat	tcattttatga	accaagaaaag	gaagccaagt	360
tgaaaaggtc	tcgagttaaa	tcgagaaatga	ttcaggcggg	cgggctctct	gagcaccttt	420
ggatgcactt	cagcttctgt	cttgtggaca	acgcagtggg	atttttagggc	tttggtttac	480
acgggtgtggg	aaattgtcag	caggctaaat	tttgccttct	agaggtcctt	ccttgcccat	540
aatcatgggg	cattttgttg	agagtttagca	gtgaggcacc	acttgggtcaa	gagactcggg	600
naagctgagt	tttgcggaag	gatgtctcca	cgcccgctgt	cgcagacact	gtcactgtct	660
tcggaactcg	nctatttgct	gncttgtgga	agcaggcnaa	nanaagcanc	gaantggggc	720
cctgaaaagn	gggtcttcac	ttggnctgga	aggcttgccc	tgggactcnc	ttnaatgggc	780

ttcggnggaa ccccatTTTTg tctt

804

<210> 474  
 <211> 819  
 <212> DNA  
 <213> Homo Sapiens

<400> 474  
 ggctgggctg cgcttgggtc cgctcgtgct tcgggtgtccc tgcggggctt cccagcagcg 60  
 gcctagcggg aaaagtaaaa gatgtctgaa tatattcggg taaccgaaga tgagaacgat 120  
 gagccattg aaataccatc ggaagacgat gggacgggtc tgcctccac gggtacagcc 180  
 cagtttccag gggcgtgtgg gcttcgctac aggaatccag tgtctcagtg tatgagaggt 240  
 gtccggctgg tagaagggaat tctgcatgcc ccagatgctg gctggggaaa tctggtgtat 300  
 gttgtcaact atccaaaaga taacaaaaga aaaatggatg agacagatgc ttcacagca 360  
 gtgaaagtga aaagagcagt ccagaaaaca tccgatttaa tagtggtggg tctcccatgg 420  
 aaaacaaccg aacaggacct gaaagagtat tttagtacct ttggagaagt tcttatgggtg 480  
 caggtaaga aagatcttaa gactggctcat tcaaaggggt ttggctttgt tcgttttacg 540  
 gaatatgaaa cacaagtga agtaatgtca cagcgacata tgatagatgg acgatggtgt 600  
 gactgcaaac ttcctaattc taagcaaagc caagatgagc ctttgagaag cagaaaagtg 660  
 tttgtggggc gctgtcagag gacatgactg aggatgaagc tgcgggagtt cttcttttca 720  
 gtanccggga tgtgatggat ggtcttcatt cccaagccat tcagggcctt tggctttggt 780  
 catttgaga tgaatcagat gcgccagtct ctttgtgga 819

<210> 475  
 <211> 721  
 <212> DNA  
 <213> Homo Sapiens

<400> 475  
 atttaaatca gttttattta agaatttcca acaatgacaa ctcttataaa aagcatccaa 60  
 gcacaggaca cagaactgca gcaaacagca ttcttatggg tagctaacag acattagaac 120  
 ttccaccctt ctttgagaca cctgagctca ctgggtgaact ctgcttcaag tcttcctgca 180  
 aagcacacca caagctcagt ccatgttctc agcccatcag cttcagttca cattgccaca 240  
 cttacatata agtaacagaa gagaacacac accatacagc attcacagca gttgacaaag 300  
 gggtaggggg agtacaagta tcatttcaact taacacattc atctaattgtg gggtatctaa 360  
 gaacaaaaac tactttaaaa gtcttccaac agatgtggat gtcctttgaa tgcaaaaaac 420  
 attcgtacat tatttgctat cattgtcttc tgcacactct ctcaccaaag ccacaggatt 480  
 gagagacaca tctcgccaag ttaaaaaata tccattatgc accaccaagt ctctgcacgc 540  
 gctctctcct tttctcgctc atactagcct ttcattgcctc ggcaccacca tcaatccac 600  
 acaaggtttc aaaagttcag acagccttct ggttccatat cacaggcctt gcgttcatag 660  
 cggtgatacg acttcctgga aattaagagt ancggataaa aatgggacac ccaccggtaa 720  
 a 721

<210> 476  
 <211> 442  
 <212> DNA  
 <213> Homo Sapiens

<400> 476  
 attnaaatca gtttnattna anantttcca ncanngncan ctntnataaa aggcntccan 60  
 nncaggacn canancngca gcaancagcn ttntnanggg tagntancan acnttaaanc 120  
 ttccaccntt ntttganaen ccngancna nngggganct nngnttcang nectcngca 180  
 angcacacca cangtcagc ccatgtntn agcccatcag nttcagttna catngccaca 240  
 nttncntatc agtaccagaa gagaccncnc ncnctncagc nttncagca gtngncaaag 300  
 gggtaggggn agtccangta tcatttnant taccacattc atctaagggg gggttatctaa 360



nacaaaaanc tcanttaaan gtnttccanc anangnggan gnccttngaa ngcaaaaaanc 420  
nttcgnccat nattggctat ca 442

<210> 477  
<211> 878  
<212> DNA  
<213> Homo Sapiens

<400> 477  
ggtggctggg ctgcgcttgg gtccgctcgt gcttcggtgt cctgtcggg cttcccagca 60  
gcggcctagc gggaaaagta aaagatgtct gaatatattc gggtaaccga agatgagaac 120  
gatgagccca ttgaaatacc atcgggaagac gatgggacgg tgctgctctc cacggttaca 180  
gccagtttc caggggcgtg tgggcttcgc tacaggaatc cagtgtctca gtgtatgaga 240  
ggtgtccggc tggtagaagg aattctgcat gcccagatg ctggctgggg aaatctggtg 300  
tatgttgtca actatccaaa agataacaaa agaaaaatgg atgagacaga tgcttcatca 360  
gcagtgaag tgaaaagagc agtccagaaa acatccgatt taatagtgtt gggctctcca 420  
tgaaaacaa ccgaacagga cctgaaagag tatttttagta cctttggaga agttcttatg 480  
gtgcaggtca agaaagatct taagactggt cattcaaagg ggtttggtt tgttcgtttt 540  
acggaatatg aaacacaagt gaaagtaatg tcacagcgac atatgataga tggacgatgg 600  
tgtgactgca aacttcctaa ttctaagcaa agccaagatg agcctttgag aagcagaaaa 660  
gtgtttgtgg ggcgctgtca gaggacatga ctgaggatga agctgcggga gttcttcttt 720  
agtaccgggg atgtgatgga tgtctttatt cccaagccc nttcaggggc ttttggtttt 780  
ggtacatttg ccagatgatc agaatgcccc gtctcttttg tggaaaagga ctttgatcat 840  
ttaaagggaa tcagcgggtc attatattcc aatggccc 878

<210> 478  
<211> 768  
<212> DNA  
<213> Homo Sapiens

<400> 478  
ggtgtcaaaa aaaaatttta tttatctggt tcaaaaaatt ttttagaatg aatgcattta 60  
gattgaccaa atagattttt aaaaacaaat ctttgccaaa tagtttaagt acttttaaac 120  
ttcaaaatct tcttagggta aaataaatac ccgtatctat gcagtaccat aaacatgtta 180  
ataaaaggcc actcaacatt gaaagccttc tatgaccagt aactgaaatt tacacaagtg 240  
taaagaaggg attaaacat gccgttgaca agttaactta cccctgggct ccttgaaggc 300  
ttgtcagttt agtcttttga ggtccccgag taccatttta agtgttacca tgttactgct 360  
gttgagtaat agtgcaagtg catttttaggt gcggtcacc agacttattc aaaactagat 420  
ttcaaaagaa aaaaaaaaaat tttcactttg gccaatgcaa gaacaaatac caattaagtc 480  
tggttatcag gtgtcaatgc atgacagggt atgaatccat ttgacttgag acaacttttc 540  
aaataagttt atttgaagca aaataaacta ctgccaagaa actttatgaa agttccatct 600  
caaaagggtc aaaaaagggt aattaaactg tatgaattct ttgcattcag ggcgtcaaaa 660  
gacgccggcc tngggatgcc gtgatgacca attcttgaat gagaaagcat gtagaccgna 720  
tttctatagg cagaaatatt tacngccta ctttcaatgg aagngctt 768

<210> 479  
<211> 815  
<212> DNA  
<213> Homo Sapiens

<400> 479  
gcgaagcggg ggctgggctg cgcttgggtc cgctcgtcgt tcgggtgtcc tgtegggctt 60  
cccagcagcg gcctagcggg aaaagtaaaa gatgtctgaa tatattcggg taaccgaaga 120  
tgagaacgat gagccattg aaataccatc ggaagacgat gggacgggtg tgctctccac 180  
ggttacagcc cagtttccag gggcgtgtgg gcttcgctac aggaatccag tgtctcagtg 240

tatgagaggt	gtccggctgg	tagaaggaat	tctgcatgcc	ccagatgctg	gctggggaaa	300
tctggtgtat	gttgtcaact	atccaaaaga	taacaaaaga	aaaatggatg	agacagatgc	360
ttcatcagca	gtgaaagtga	aaagagcagt	ccagaaaaca	tccgatttaa	tagtggtggg	420
tctcccatgg	aaaacaaccg	aacaggacct	gaaagagtat	tttagtacct	ttggagaagt	480
tcttatggtg	caggtcaaga	aagatcttaa	gactggtcat	tcaaaggggt	ttggctttgt	540
tcgttttacg	gaatatgaaa	cacaagtga	agtaatgtca	cagcgacata	tgatagatgg	600
acgatgggtg	gactgcaaac	ttcctaattc	taagcaaagc	ccagatgaac	ctttgagaag	660
cagaaaagtg	tttgtggggg	cgctgtacag	angacatgac	tgangataan	cttcnggagt	720
tcttttttta	ataccgggat	gtgatggatg	cttcatttcc	caacccattc	agggcctttg	780
nctttggtac	catttgcaga	tgatcanatt	gccca			815

&lt;210&gt; 480

&lt;211&gt; 812

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 480

gtggtgtcaa	aaaaaatttt	atttatctgg	ttcaaaaaat	tttttagaat	gaatgcattt	60
agattgacca	aatagatttt	taaaaacaaa	tctttgccaa	atagtttaag	tactttttaa	120
cttcaaaatc	ttcttagggg	aaaataaata	cccgtatcta	tgcagtacca	taaacatggt	180
aataaaaggc	cactcaacat	tgaaagcctt	ctatgaccag	taactgaaat	ttacacaagt	240
gtaaagaagg	gattaaacca	tgccgttgac	aagttaactt	acccctgggc	tccttgaagg	300
cttgctcagtt	tagtcttttg	aggtccccga	gtaccatttt	aagtgttacc	atgttactgc	360
tgctgagtaa	tagtgcaagt	gcatttttag	tgcggtcacc	cagacttatt	caaaactaga	420
tttcaaaaga	aaaaaaaaaa	ttttcacttt	ggccaatgca	agaacaaata	ccaattaagt	480
ctgggtatca	ggtgtcaatg	catgacagg	gatgaatcca	tttgacttga	gacaactttt	540
caaataagtt	tatttgaagc	aaaataaact	actgccaaaga	aactttatga	aaagttccat	600
cttcaaaagg	ggtcaaaaaa	ggggaattaa	ctgctatgaa	ttctttgcat	tcanggetgc	660
aaaacaaaga	ccccatatta	tttaaaatcc	agtttattta	agaatttncc	accntggaca	720
acttcttatt	aaaaaggcnt	tccaggccca	nggaccacag	aaactgnang	ccaaacangc	780
atttcttatg	gggtagctta	ccaggacctt	tt			812

&lt;210&gt; 481

&lt;211&gt; 1127

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 481

gaggacagca	atttaatggc	aaaggaaaaga	caagacaggc	tgcgaaacac	gatgctgctg	60
ccaaagcgtt	gaggatcctg	cagaatgagc	ccctgccaga	gaggctggag	gtgaatggaa	120
gagaatccga	agaagaaaat	ctcaataaat	ctgaaataag	tcaagtgttt	gagattgcac	180
ttaaacggaa	cttgccctgtg	aatttcgagg	tggcccgagg	gagtggccca	ccccacatga	240
agaactttgt	gaccaagggt	tcggttgggg	agtttgtggg	ggaagggtgaa	gggaaaagca	300
agaagatttc	aaagaaaaat	gccgccatag	ctgttcttga	ggagctgaag	aagttaccgc	360
ccctgcctgc	agttgaacga	gtaaagccta	gaatcaaaaa	gaaaacaaaa	cccatagtca	420
agccacagac	aagcccagaa	tatggccagg	ggatcaatcc	gattagccga	ctggcccaga	480
tccagcaggc	aaaaaaggag	aaggagccag	agtacacgct	cctcacagag	cgaggcctcc	540
cgcgccgcag	ggagtttgtg	atgcaggtga	aggttggaag	ccacactgca	gaaggaaacg	600
gcaccaacaa	gaagggtggc	aagcgcaatg	cagccgagaa	catgctggag	atccttggtt	660
tcaaagtccc	gcaggcgcag	cccaccaaac	ccgcactcaa	gtcagaggag	aagacacca	720
taaagaaacc	aggggatgga	agaaaagtaa	ccttttttga	acctggctct	ggggatgaaa	780
atgggactag	taataaagag	gatgagttca	ggatgcctta	tctaagtcac	cagcagctgc	840
ctgctggaat	tcttcccatg	tgccccagg	tcgcccaggc	tgtaggagtt	agtcaaggac	900
atcacaccaa	agattttacc	agggcagctc	cgaatcctgc	caaggccacg	gtaactgcca	960
tgatagcccg	agagttgttg	tatgggggca	cctcgccccc	agcccagagc	cattttaaag	1020

aataacatct cttcaggcca cgtaccccat ggacctctca cgagaccctn tgagcaactg 1080  
gatatcttt ncagagtcca gggattncag gttgaatacc aagactt 1127

<210> 482  
<211> 773  
<212> DNA  
<213> Homo Sapiens

<400> 482  
taccgccctt gcctgcagtt gaacgagtaa agcctagaat caaaaagaaa aaaaaaccca 60  
tagtcaagcc acagacaagc ccagaatatg gccaggggat caatccgatt agccgactgg 120  
cccagatcca gcaggcaaaa aaggagaagg agccagagta cacgctcctc acagagcgag 180  
gcctcccgcg ccgcaggag tttgtgatgc aggtgaagggt tggaaccac actgcagaag 240  
gaacgggcac caacaagaag gtggccaagc gcaatgcagc cgagaacatg ctggagatcc 300  
ttggtttcaa agtcccgcag ggcagccca ccaaacccgc actcaagtca gaggagaaga 360  
caccataaaa gaaaccaggg gatggaagaa aagtaacctt ttttgacct ggctctgggg 420  
atgaaaatgg gactagtaat aaagaggatg agttcaggat gccttatcta agtcacagc 480  
agctgcctgc tggaattctt cccatggtgc ccgaggtcgc ccaggctgta ggagttagtc 540  
aaggacatca caccaaagat tttaccaggg cagctccgaa tcctgccaa gcccaggtaa 600  
ctgccatgat agcccgagag ttgttgtatg ggggacctc gccacagcc cgagaccatt 660  
ttaaagaata acatctcttc aggccacgta cccatggac ctctcacgag acctntgag 720  
caactggact atcttncag agtccaggga ttncaggtt aataccaaga ctt 773

<210> 483  
<211> 794  
<212> DNA  
<213> Homo Sapiens

<400> 483  
cattagtagc tgttnattga tcaanggttn gatataaagt tatttcanat cttcanactt 60  
ttgccagat ggaatcacia gcattacaaa gtttttctt aaaaataaaa aaaggatagg 120  
ggcaagttgg gaggggacca acctagcagt agnggcattt ganaataaat tancaaaaaa 180  
atttagtatt accattnatt gatgacaaac acttaagttt tacttacatt ccatggggag 240  
aaaattcca gcgtaacaaa tgaatggaag cagtacttaa ctgcagggc taccaggctt 300  
tccatacgga ccacacgcag agcctcagng cacacacttc tgtgtncagt ancacaacat 360  
caaaagcaac acagntgtat acagaaacgt aggtcattct tttcagccct aanggagatg 420  
taattaacag tatcgagcac tntggaaaat cactctgcag gtttatatgg actacatgga 480  
gatcatatcc tgtagtgtag tgaaagctaa gtcctcaaga gccatatgta tagatncaca 540  
atgtttttta ataattctta aaacagagat caaagttcat ttaagnctg tttgcattac 600  
caaaaataaaa aatgaaataa aatggaacc aatgaacat ctaangttta aaattcctaa 660  
atnggccaat ttatncaact gngggggaga cttattcaag ggttttgaaa gtccaggaa 720  
tggtttcaag ctggaacca ggggggccc acaatttggc attcnctgga aactggccct 780  
ggggttaagc caaa 794

<210> 484  
<211> 788  
<212> DNA  
<213> Homo Sapiens

<400> 484  
caagaccaga aggaaatgca cagttggata agatgggggt cacaattatc agaaaatgca 60  
tcagtgcctg tgaaacacga ggtataaatg accaaggatt gtacagagtt gtgggggtga 120  
gttcaaaggc ccagagactt ctgagtatgt tgatggatgt aaaaacatgc aatgaggtgg 180  
acctggagaa ttctgcagat tgggaagtga agacaataac aagtgccttg aaacagtatt 240  
tgaggagtct tccagagcct ctcacgacct atgagttaca tggagatttc attgttccag 300

ccaaaagcgg	cagcccagaa	tctcgtgtta	atgcgatcca	tttcttggtta	cacaaactgc	360
cagagaagaa	taaagagatg	ttggatat	tggtgaaaca	cttaacaaat	gtttcaaact	420
actccaagca	gaacctgatg	actgtggcaa	acttaggagt	gggtgttgga	ccaactctga	480
tgaggccaca	ggaagaaact	gtcgtgcct	catggacttg	aagtttcaga	atattgttgt	540
ggaaatctta	attgaaaacc	atgaaaagat	ttttcggacg	ccgnccgata	ctacattccc	600
tgagcccacc	tgctgtcag	catcaccccc	aaatgcgcca	ccaangcagt	cnaagagaca	660
aggncagaga	accaagaagg	cccgtggggc	gtctacaatc	tttggctgga	gctggaaaga	720
tggtgacaat	ccttaccctt	tccanggagg	acaccctta	ccacagtctg	gactcacttt	780
tcttcccg						788

<210> 485  
 <211> 430  
 <212> DNA  
 <213> Homo Sapiens

<400> 485	
agtaaatatc	agtttatctt
acagcacacg	ggtgaggagc
agtgcagtga	gtgtggggtc
gtctctgctt	ccctntgact
taggctgcca	cagccaagca
tttanaaatcg	nagcagcang
tgactgccag	tnagggcgga
atgctgngat	

<210> 486  
 <211> 831  
 <212> DNA  
 <213> Homo Sapiens

<400> 486	
aaagtgtagt	gccatcgaca
ttatggtgac	aaaaccagtg
tttgtacttc	tggaattggt
catatcatat	ttcatctact
attcaaattg	tgattctgcc
cttgtctcag	aaatatttgt
aaccaactaa	tgacgatatt
ttattagcaa	cttttctgca
tgacatcatt	ggaagttaca
ttaaaggagaa	aacctctcca
ctagtagcaa	taaggacatg
tagataagag	caaatcagtg
tgctgttttc	tggagaagaa
ctcttcagaa	tcagtttaac

<210> 487  
 <211> 728  
 <212> DNA  
 <213> Homo Sapiens

<400> 487	
gacggagtct	gtctctgtcg
atctctgcct	cccaggttca
caggtgcctg	ccaccacgcc

atgttgccca	ggctggctct	gaactcctga	cctcaagtga	tccacccccca	ccccattgg	240
cttcccagag	ttctgggatt	acaggcgtga	atcacgcgc	ccagcccaaa	tcgccgaagt	300
ctttatctcc	taccttgatc	tctgtagcag	aaaagaacag	tatagatatc	aattgtcatc	360
aacagatgca	acatatcttg	taaatcaata	tatttttcaag	tgagggtctct	gaatcacctg	420
cactgaaatc	atctgtgatg	cttatcaagc	atgcagattc	tcaggaccct	tcactgactt	480
cataaatctt	catctctgga	ggtgagaccc	tgacactgt	atatgcaacg	agcacaccac	540
caatcctgga	tgagccccgc	tttttctctg	tgccagaacc	ttaatgccac	gcagcattac	600
attaagtcac	attacaactt	tggatcaatgg	aaacacaggg	tctttttctg	acaaaatgcc	660
atcaagcgca	gtttggctcc	ccacttaagt	tcaaatnttt	aatcattaat	tttctgagcc	720
taaaatgc						728

<210> 488  
 <211> 788  
 <212> DNA  
 <213> Homo Sapiens

<400> 488						
gtgggcccctg	tcctttctcc	ccagctcctg	ccccggagcc	gggcccctggc	gaggcaggaa	60
tggccccgag	gcctccgacc	gccgcgcccc	aggaatcagt	gacattcaaa	gatgtgtctg	120
tggacttcac	ccaggaagaa	tggtaccatg	tcgaccctgc	tcagaggagc	ttatacaggg	180
atgtgatgct	ggagaactat	agccacctgg	tttctcttgg	atatcaagtt	tccaagccag	240
aggtgatctt	caaattggag	caaggagaag	agccatggat	atcagaggga	gaaatccaac	300
gacctttcta	tccagactgg	aagaccaggc	ctgaagtcaa	atcatcacat	ttgcagcagg	360
atgtatcaga	agtatccac	tgcacacatg	atctcttaca	tgctacatta	gaagactcct	420
gggatgttag	cagccagtta	gacgggcaac	aggaaaactg	gaagagacat	ctgggatcag	480
aggcatccac	ccagaagaaa	ataattacac	cacaagaaaa	tttgagcaa	aataaatttg	540
gtgaaaattc	tagattgaac	accaatttgg	ttacacaact	gaacattcct	gcaagaataa	600
ggcctagtga	atgtgagacc	cttgggaagca	atttgggaca	taatgcagac	ttacttaaatg	660
agaataatat	tcttgcaaaa	aagaaaccct	tttagtgnga	taatgtagaa	aagnctttan	720
tcatagatca	tcgnntacta	aaccttgaga	aaaccctta	anggaaaagg	gagctttcct	780
aatgggac						788

<210> 489  
 <211> 875  
 <212> DNA  
 <213> Homo Sapiens

<400> 489						
aaagagatgg	ggtttcacca	tgttgtccag	gctggtcttg	aactctgggt	tcaagcagtc	60
tatctgcctt	agccacccaa	agtgtctggga	ttacaggtgt	gagacaccat	acctagccaa	120
gttaattttt	ttaatggtga	aatcttttct	ttgcacataa	aatgagccag	tgcatgttgc	180
ttctctgagt	acaagacaaa	atttatggca	atgggcaatt	agacttatac	ttttctgcaa	240
gaaaattaac	gggaaaattc	tcctcttagt	tttctgttgt	tttccattg	atctgatact	300
gtaggcctaa	gaaagtgcct	tttcatgggc	atgccataaa	aagtacaata	aggggactta	360
atagttctgt	gaaactggca	tatgttagct	gaaagtataa	ttgtaactgg	gaaaaggggga	420
aaaaagtcac	tagtagttca	accatctaca	gtttctgtta	aattgtgggt	tgtaagcctc	480
caagaagttg	ctttaaatag	tttgtgataa	atttgcatac	attttgctcc	cacttatact	540
tttaagaatt	ctcaaagtgt	ccaaccata	ggtgccatt	aatgtttgt	gtatctgac	600
atcttaaaat	ttattttaaa	gccctctgag	tcccaaaaat	aaccttttca	ctggcaaggc	660
catggggccc	caaatccagg	aaaccctggc	atttttaacc	caacttttac	ccttataggc	720
tggaaatcata	ctgnnggaaa	cccacttcac	atcttttggc	tttcagtctt	caatctgncc	780
cnaatggaaa	atgggttggg	cctagttaga	actaaattct	tttgaatggg	ggactttcct	840
ggaaattggg	aactnggttt	ccatggggga	aagtt			875

<210> 490

<211> 844  
 <212> DNA  
 <213> Homo Sapiens

<400> 490

aagtgtttga	gattgcactt	aaacggaact	tgcctgtgaa	tttcgaggtg	gcccgggaga	60
gtggcccacc	ccacatgaag	aactttgtga	ccaaggtttc	ggttggggag	tttgtggggg	120
aaggtgaagg	gaaaagcaag	aagatttcaa	agaaaaatgc	cgccatagct	gttcttgagg	180
agctgaagaa	gttaccgccc	ctgcctgcag	ttgaacgagt	aaagcctaga	atcaaaaaga	240
aaacaaaacc	catagtcaag	ccacagacaa	gcccagaata	tggccagggg	atcaatccga	300
ttagccgact	ggcccagatc	cagcaggcaa	aaaaggagaa	ggagccagag	tacacgctcc	360
tcacagagcg	aggcctcccc	cgccgcaggg	agtttgtgat	gcaggtgaag	gttggaacc	420
acactgcaga	aggaacgggc	accaacaaga	aggtggccaa	gcgcaatgca	gccgagaaca	480
tgctggagat	ccttgggttc	aaagtcccgc	aggcgagccc	caccaaacc	gcactcaagt	540
cagaggagaa	gacaccata	aagaaaccag	gggatggaag	aaaagtaacc	ttttttgaac	600
ctgctcttgg	ggatgaaaat	gggactagta	ataaagagga	tgagttcagg	atgccttatc	660
taagtcatca	gcagctgcct	gctggaatc	tttccatgg	gcccangtc	gcccagctg	720
taggaagtta	gtcaaggaca	tnacacccaa	gattttacca	ggcagcttcg	aatcttgcca	780
nggcncngta	ctgccatgat	agcccanagt	tggtgtattg	gggcanctt	gcccaggcc	840
ggga						844

<210> 491  
 <211> 825  
 <212> DNA  
 <213> Homo Sapiens

<400> 491

cattagtagc	tgtttattga	tcaatggttt	gatataaagt	tatttcanat	cttcagactt	60
ttgccagat	ggaatcacia	gcattacaaa	gttttttctt	aaaaataaaa	aaaggatagg	120
ggcaagtgg	gaggggacca	acctagcagt	agtggcattt	gagaataaat	taacaaaaaa	180
atttagtatt	accatttatt	gatgacaaac	acttaagt	tacttacatt	ccatggggag	240
aaaaattcca	gcgtaaaaca	tgaatggaag	cagtacttaa	ctcgagggc	taccaggctt	300
tccatacgg	ccacacgcag	agcctcagtg	cacacacttc	tgtgtacagt	aacacaacat	360
caaaagcaac	acagctgtat	acagaaacgt	aggtcattct	tttcagccct	aatggagatg	420
taattaacag	tatcgagcac	tctggaaaat	cactctgcag	gtttatatgg	actacatgga	480
gatcatatcc	tgtagttag	tgaaagctaa	gtcctcaaga	gccatatgta	tagatacaca	540
atgtttttta	ataatcttta	aaacagagat	caaagtccat	ttaaagtcct	gtttgcatta	600
acaaaaataa	aaatganaat	aaaaatggac	caaatgatca	tctaaaagtt	aaaattccta	660
aatggtccaa	tttatacaac	tgggggagac	ttattcaagg	tttttgaaag	tccaggactg	720
gtttcagctg	aaccagangg	cccccaattt	gcactactgg	aactgncctg	ggtttagcca	780
aggaaattaa	aaaagnctta	accccttcc	cctgggattt	gaacc		825

<210> 492  
 <211> 946  
 <212> DNA  
 <213> Homo Sapiens

<400> 492

gaggacagca	atttaattggc	aaaggaaaga	caagacaggc	tgcgaaacac	gatgctgctg	60
ccaaagcggt	gaggatcctg	cagaatgagc	ccctgccaga	gaggctggag	gtgaatggaa	120
gagaatccga	agaagaaaat	ctcaataaat	ctgaaataag	tcaagtgttt	gagattgcac	180
ttaaaccgaa	cttgctgtg	aatttcgagg	tggcccggga	gagtggccca	ccccacatga	240
agaactttgt	gaccaagggt	tgggttgggg	agtttgtggg	ggaaggtgaa	gggaaaagca	300
agaagatttc	aaagaaaaat	gccgccatag	ctgttcttga	ggagctgaag	aagttaccgc	360
ccctgcctgc	agttgaacga	gtaaagccta	gaatcaaaaa	gaaaacaaaa	cccatagtca	420

agccacagac	aagcccagaa	tatggccagg	ggatcaatcc	gattagccga	ctggcccaga	480
tccagcaggc	aaaaaaggag	aaggagccag	agtacacgct	cctcacagag	cgaggcctnc	540
cgcgccgcag	ggagtttggt	atgcagggtga	aggttggaaa	ccacacttgc	agaaggaacg	600
ggcaccaaca	agaaggtggc	caagcgcaat	gcacccgaga	acatgctgga	gatccttggt	660
ttcaaaagtc	cgcangcgc	agcccaccaa	acccggactn	aagtcagang	agaagacccc	720
attaaggaaa	ccangggatg	gaagaaaagt	ancnttttga	anctggctnt	tgggattaaa	780
atgggcttgt	antaaagagg	atgagttcag	gatgncntat	ctaagtcatn	aacacttgct	840
gctggaaatc	tttccatggg	ggccgaggtc	nccagccttt	taggagttat	canggcctnt	900
ccnccaaga	attttcccgg	gcagttttcca	atctgccaa	gccccg		946

&lt;210&gt; 493

&lt;211&gt; 804

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 493

ggctctttatg	tgcttaata	acgctgaatt	ataattagcc	acacaaataa	tgagagtttt	60
attttttttt	tctggctcac	tccaaatcag	cctgttaagg	tatatctcct	tctacagcct	120
ttcctgattt	tgcatgttct	cattcccaaa	gtagtctacc	ttagtttaca	ctcaaaggta	180
gcacttggtg	aaactacatg	acagaaacag	gctgcaaagg	tggacaaggg	gaagcatgtc	240
cctcttgctt	tgataaatca	gtgccacaca	cagaaccac	atcttctgag	acattatctt	300
cattatagag	cgttttgatt	ccatcataga	agtcattcc	ttccatttcc	tctactttgc	360
gttttagtaga	ggcttgcttg	cacccactgg	cagctgggag	atgatggtaa	aaggctgctg	420
tacctctgac	tggcacttct	ggcttgctgt	tgctcttga	gaagtctggg	cctgggacag	480
aggagggatg	taatctgaac	actcctttgt	cacaggtcac	caggggtgtc	ttgaggggac	540
ggtagacata	aacggaattc	agaggcaggg	aagactgcag	agtanaaagg	tgatgtgcc	600
aagcttccga	ccatggatca	actgggagct	atncatctgg	ctttctgaag	cagntcaatt	660
gtaagagaaa	gcccattccn	ggaatggagt	tentccattt	tcagactaac	cctgggcnctn	720
aagcaaggca	tgggatcccc	tggaaattgcc	anaaanttgg	gttgccaggn	ccatacnccg	780
nggnaagtaa	ttngcttttg	gtaa				804

&lt;210&gt; 494

&lt;211&gt; 856

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 494

gaaaggttg	aaagaataaa	tagggccagg	gaacaaggat	ggagaaatgt	gctaagtgt	60
ggtggaagt	gtgaagtaaa	ggctcctttt	ctgggcagtg	gagggactat	agctccatca	120
tctttttctt	ctcgaggaca	gtatgaacat	taccatgcca	tttttgacca	aatgcagcaa	180
caaagagcag	aagataatga	agctaaatgg	aaaagagaaa	tatatggctg	aggctctcca	240
gaaaggcaaa	aagggcagct	agctgtagaa	agagctaaac	aagtagaaga	gttctgtcag	300
cgaaaacggg	aagctatgca	gaataaagct	cgagccgaag	gacatatggg	aatcctgcaa	360
aacctggcag	ctatgtatgg	aggcaggccc	agctcttcaa	gaggaggga	gccaagaaac	420
aaagaggaag	aggtttatct	ggcaagactg	aggcaaataa	gactacagaa	tttcaatgag	480
cgccaacaga	ttaaagccaa	acttcgtgg	gaaaagaaag	aagctaata	ttctgaagga	540
caagaaggaa	gtgaagaggc	tgacatgagg	cgcaaaaaaa	atcgatcac	tgaaggccca	600
tgcaaatgca	cgtgctgctg	tctaaaagaa	cactagaacg	aaagagaaag	gaggcttatg	660
agagagaaaa	aaaagtgtgg	gaagagcatt	tggtggctaa	aggagttaag	agtctgatgg	720
ttcttccctt	ttgggaccag	catgaaacaa	gggtgctttt	ccttcaaagc	caccggatga	780
aaanctggta	nttctggnac	ttcacttttn	aagaanttgg	cgtggngt	agtttaactg	840
gataccggg	aacttc					856

&lt;210&gt; 495

&lt;211&gt; 757

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 495

agataataaaa aattttaatag caatatcata aaataaacac acatattaaa aaatcaagta	60
tttagtttcg gatattagaa ataatatata taataaatte aacatactga tagtgctgca	120
agataagatt ttatttttca aattacatat tatgccaaac agcctgcttt ggactcagag	180
gttcaaaaaac tttgctttta ttacgaagaa catntggact gtagacacct ntaacgaaac	240
caggttatac ttggcatatt gngattgaag ctgtgtgac aacatcttaa tgacctaaact	300
aaatcctntc ataacagaaa gaagttcaac aggcaaacat ttccctccct aggatcctag	360
ttacccaaaac tgtcacagng ncaaaaataaa aataattatt tcctcctttt taacatctta	420
ttgnccttga agcttatgta tggaggaagt taaaaaccaa aagagcaact ttaagctata	480
tgctaagtca gngttaaate cacagactaa tttttcgata tagnattcct ggntctggnc	540
cttaaaagaga aataaaggca ttaaacact tttttatatg tcaaggaaat ataatttngc	600
tattctttca taatcaaatc tttcaatgga tttctaagac tggnttctac agcctgngng	660
ctagttccag gggacacact gattgtaaaa nggacttggg ggaaatntaa aactttaagg	720
gctaaaaaat ttcatcttct aaaaatgntnt agatgtt	757

&lt;210&gt; 496

&lt;211&gt; 1759

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 496

cgaggatcca ggcgcaggag gacagagcaa tgggtgagag aactcttcac gctgcagtgc	60
ccacaccagg ttatccagaa tctgaatcca tcatgatggc cccattttgt ctagtggaaa	120
accaggaaga gcagctgaca gtgaattcaa aggcattaga gattcttgac aagatttctc	180
agcccgtagt ggtggtggcc attgtagggc tataccgcac aggaaaatcc tatctcatga	240
atcgtcttgc aggaagcgc aatggcttcc ctctgggctc cacggtgcag tctgaaacta	300
agggcatctg gatgtggtgt gtgccccacc tctctaagcc aaaccacacc ctggtccttc	360
tggaacccga gggcctgggc gatgtagaaa agagtaaccc taagaatgac tctgggatct	420
ttgccctggc tgtgcttcta agcagcagct ttgtctataa cagcgtgagc accatcaacc	480
accaggccct ggagcagctg cactatgtga ctgagctagc agagctaate agggcaaat	540
cctgccccag acctgatgaa gctgaggact ccagcagatt tgcgagtttc tttccagact	600
ttatttggaac tgttcgggat tttaccctgg agctaaagtt agatggaaac cccatcacag	660
aagatgagta cctggagaat gccttgaagc tgattccagg caagaatccc aaaattcaaa	720
attcaaacat gcctagagag tgtatcaggc atttcttccg aaaacggaag tgctttgtct	780
ttgaccggcc tacaatatgac aagcaatatt taaatcatat ggacgaagtg ccagaagaaa	840
atctggaaaag gcatttcctt atgcaatcag acaacttctg ttcttatatc ttcacccatg	900
caaagaccaaa gacctgaga gagggaatca ttgtcactgg aaagcggctg gggactctgg	960
tggtgactta ttagatgcc atcaacagtg gagcagtagc ttgtctggag aatgcagtga	1020
cagcactggc ccagcttgag aaccagcgg ctgtgcagag ggcagccgac cactatagcc	1080
agcagatggc ccagcaactg aggcctcccc cagacacgct ccaggagctg ctggacgtgc	1140
atgcagcctg tgagagggaa gccattgcag tcttcattgga gactccttc aaggatgaaa	1200
acctgaatt ccagaagaag cttgtggaca ccatagagaa aaagaaggga gactttgtgc	1260
tgcagaatga agaggcatct gccaaatatt gccaggctga gcttaagcgg ctttcagagc	1320
acctgacaga aagcattttg agaggaattt tctctgttcc tggaggacac aatctctact	1380
tagaagaaaa gaaacaggtt gagtgggact ataagctagt gccagaaaa ggagttaagg	1440
caaacgaggt cctccagaac ttcctgcagt cacaggtggt ttagagaggaa tccatcctgc	1500
agtacagaaa agccctcact gctggagaga aggcctatgc agcggagcgg gccatgaagg	1560
aagcagctga gaaggaacag gagctgctaa gaaaaaaca gaaggagcag cagcaaatga	1620
tggaggctca agagagaagc tttcaggaat acatggacca aatggagaag aagtggagg	1680
angaaaggga aaacntntc agagagcctt gaaaagggtt ctaaaacaca agcttgaagg	1740
tncagaagaa aatgcttaa	1759



<210> 497  
 <211> 842  
 <212> DNA  
 <213> Homo Sapiens

<400> 497  
 atgacaagca atattttaa catatggacg aagtgccaga agaaaatctg gaaaggcatt 60  
 tccttatgca atcagacaac ttctgttctt atatcttcac ccatgcaaag accaagaccc 120  
 tgagagaggg aatcattgtc actggaaagc ggctggggac tctgggtggtg acttatgtag 180  
 atgccatcaa cagtggagca gtaccttggtc tggagaatgc agtgacagca ctggcccagc 240  
 ttgagaaccc agcggtgtg cagagggcag ccgaccacta tagccagcag atggcccagc 300  
 aactgaggct cccacagac acgtccagg agctgctgga cgtgcatgca gcctgtgaga 360  
 gggaagccat tgcagtcttc atggagcact ccttcaagga tgaaaacat gaattccaga 420  
 agaagcttgt ggacaccata gagaaaaaga agggagactt tgtgctgcag aatgaagagg 480  
 catctgccaa atattgccag gctgagctta agcggtcttc agagcacctg acagaaagca 540  
 ttttgagagg aattttctct gtctctggag gacacaatct ctacttagaa gaaaagaaac 600  
 aggttgagtg ggactataag ctagtgccca gaaaaggagt taaggcaaac gaggtcctcc 660  
 agaacttcct gcagtcacan gtggttgtag aggaatccat cctgcagtca gacaaagccc 720  
 tctactgttg agagaaggcc atacaaccgg aaccgggcca tgaaggaagc acttgagaag 780  
 gaacaggagc tgcttagaga aaaaccgaag gagccagcag ccaaatggat ggaggctcaa 840  
 ga 842

<210> 498  
 <211> 707  
 <212> DNA  
 <213> Homo Sapiens

<400> 498  
 gagcaataaa gctttttaat cacctgggtg caggtctggct gagtccgaaa agacagtcag 60  
 tgaagggaga taggggtggg accattttac aggatattggg ttggtaaagg aaaattacag 120  
 tcaaaggggg ttgttctctg gcgggcagag gtgggtgtca caagttgctt agtgggggag 180  
 cttttgagcc aggatgagcc aggagaagga atttcacaag gtaatgtcat cagttaaggc 240  
 aggaacaggc cattttctact tcttttgtga ttcttcactt gcttcaggcc atctggacgt 300  
 atgtacatgc aggtcacagg ggatatgatg gcttagcttg ggctcagagg cctgacattt 360  
 agtatattta ctggaatatt caggtcttta aatacgtgag ccaagatatt ttgtccctac 420  
 tccaagtagc ttggaagccc caggtagagt gacaatcatt atgttgctag ccatgtcaag 480  
 gatctttaag agccttaact gttcattttt agtgctttca attttttctt tcagttgatt 540  
 aatctcttta ttttaactgct cagatttctt ttgaaattct tccttaagca tttcttcttg 600  
 naccttcagc ttgggggtta acagcctttc atgctctctg aaaagggttt ncctttcctn 660  
 cttcaacttc ttctccattt gggccatgna ttcttggaag cttctct 707

<210> 499  
 <211> 772  
 <212> DNA  
 <213> Homo Sapiens

<400> 499  
 gtggagcagt accttgtctg gagaatgcag tgacagcact ggcccagctt gagaaccag 60  
 cggctgtgca gagggcagcc gaccactata gccagcagat ggcccagcaa ctgaggctcc 120  
 ccacagacac gctccaggag ctgctggacg tgcattgcagc ctgtgagagg gaagccattg 180  
 cagtcttcat ggagcactcc ttcaaggatg aaaaccatga attccagaag aagcttgttg 240  
 acaccataga gaaaaagaag ggagactttg tgctgcagaa tgaagaggca tctgcccatt 300  
 attgccaggc tgagcttaag cggttttcag agcacctgac agaaagcatt ttgagaggaa 360  
 ttttctctgt tcctggagga cacaatctct acttagaaga aaagaaacag gttgagtggg 420  
 actataagct agtgcccaga aaaggagtta aggcaaacga ggtcctccag aacttctctg 480

agtcacaggt	ggttgtagag	gaatccatcc	tgcagtcaga	caaagccctc	actgctggag	540
agaaggccat	agcagcggag	cgggccatga	aggaagcagc	tgagaaggaa	caggagctgc	600
taagagaaaa	acagaaggag	cagcagcaaa	tgatggaggc	tcaagagaga	agctttcagg	660
aatacatggn	cctaatggag	aagaagttgg	aggangaaa	ggaaaaccnt	ntcagagagc	720
cttgaagg	ttgctaaaac	acaagcttga	aggtncagaa	gaaaatgctt	aa	772

<210> 500  
 <211> 787  
 <212> DNA  
 <213> Homo Sapiens

<400> 500						
ggctgttttt	agttttttct	tgattttcaaa	totttcttttc	aacacctccc	tcttctctat	60
gcgattgaac	agttcttgct	ctctctcttt	ctctgtcatc	tgttccagac	gggccctgtc	120
tctctcatct	cccatgaggt	cttctccata	gccatcatgg	aactcttcat	cttctgagga	180
agagtctgaa	tctgaactgg	aagaggagct	gttgctgtca	gagtctgaca	cttcaccttc	240
ctcaggggct	gagctctcag	ctgaactgtc	tttgtctgaa	ctgcctgagg	aggcagtttt	300
gttggcctgt	ttcttcatgg	ttcctttctt	ctctattttt	ctggcttttc	ctttcttctt	360
atthttctcg	tgccgaattc	ggcacgagga	actattcgag	tttttttttt	tttttttttt	420
tgagacggag	tctcgctccg	tcgcccaggc	tgaggtgcag	cggcgcgatc	tcgactcact	480
gcaagctccg	cctcccgggc	ccacgccatt	ctcccggccc	agcctcccgt	gtagctggga	540
ctacaggcgc	gtgccaccac	gcccggccaa	tttttgcatt	tttagcanag	acgggggttc	600
accgggttag	ccagggaagg	ctcgatcccc	tgacctcgng	atccaccctg	cttggcctcc	660
caaagtgtcg	ggaccacacg	gcaatgagtt	ggatttttaa	ctactgggtt	taaggccagg	720
caggccccag	gcctgggttt	tgggcctggc	nctggcctgn	ccggccttgg	gtttaccttc	780
ctggggg						787

<210> 501  
 <211> 886  
 <212> DNA  
 <213> Homo Sapiens

<400> 501						
agttntnacc	gctcgnctcg	cgcgcctgca	ggctcgacact	agtggatcca	aagcgggatt	60
ttaccctgga	gctaaagtta	gatggaaacc	ccatcacaga	agatgagtac	ctggagaatg	120
ccttgaagct	gattccaggc	aagaatccca	aaattcaaaa	ttcaaaccatg	cctagagagt	180
gtatcaggca	tttcttccga	aaacgggaagt	gctttgtctt	tgaccggcct	acaaatgaca	240
agcaatattt	aatcatatg	gacgaagtgc	cagaagaaaa	tctggaaagg	catttcctta	300
tgcaatcaga	caacttctgt	tcttatatct	tcacccatgc	aaagaccaag	accctgagag	360
agggaatcat	tgtcactgga	aagcggctgg	ggactctggt	ggtgacttat	gtagatgcca	420
tcaacagtgg	agcagtacct	tgtctggaga	atgcagtgc	agcactggcc	cagcttgaga	480
accagcggc	tgtgcagagg	gcagccgacc	actatagcca	gcagatggcc	cagcaactga	540
ggctccccac	agacacgctc	caggagctgc	tgagcgtgca	tgacgcctgt	gagaggggag	600
ccattgcagt	cttcatggag	cactccttca	aggatgaaaa	ccatgaattc	cagaagaagc	660
ttgtggacac	catagagaaa	aagaaggag	actttgtgct	gcagaatgaa	gaggcatctg	720
ccaaatattg	ccaggctgac	ttaagcggct	ttcagagcac	ctgacagaaa	gcatttttag	780
aggaattttc	tctggtcctg	gaggacacaa	tctctactta	gaagaaagga	aacaggntga	840
gtgggggacta	ttagctagtg	nccagaaaag	gagttaaggc	aaacga		886

<210> 502  
 <211> 626  
 <212> DNA  
 <213> Homo Sapiens

<400> 502

```

gggagcaata aagcttttta atcacctggg ngcaggctgg ctgagtcena aaagacagtc      60
agnaaagga nanagggttg ggaccatttt acaggatttg ggttggtaaa ggaaaattac      120
ngtcaaaggg ggttggtctn tggcgggcaa agggggngt cacaagttgc ttannggggg      180
ancttttgag ccaggatgan ccnggaaaag gaatttcnca aggnaatggc atcagttaag      240
gcaggaacag gccattttca cttnttttgg gantcttcac ttgcttcagg ccatntggaa      300
nattcaggct nttaaanacn ngagccnana nattttggcc ctactccaag tagcttgaa      360
nccccaggta aagggacnat cattatgntg ctagecntgt caaggatntt taaaagcctt      420
aactggncat ttttangget ttcaattttt tnttttagtn gattaancnc tttatttaac      480
ngctcaaatt tcttttgaaa ntnttcctta agcntttctt cttgnccttn ancttgggnt      540
ttancagcct ttcatgcnct ttgaaaaggn ttcccttctt ctctccaac ttctctcca      600
tttggggcca tgntattncc tgggaa      626

```

&lt;210&gt; 503

&lt;211&gt; 884

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 503

```

cgaggatcca ggcgcaggag gacagagcaa tgggtgagag aactcttcac gctgcagtgc      60
ccacaccagg ttatccagaa tctgaatcca tcatgatggc cccattttgt ctagtggaaa      120
accaggaaga gcagctgaca gtgaattcaa aggcattaga gattcttgac aagatttctc      180
agcccgtggt ggtggtggcc attgtagggc tataccgcac aggaaaatcc tatctcatga      240
atcgtcttgc aggaaagcgc aatggcttcc ctctgggctc cacgggtgcag tctgaaacta      300
agggcatctg gatgtggtgt gtgcccacc tctctaagcc aaaccacacc ctggctcctt      360
tggaacacga gggcctgggc gatgtagaaa agagtaaccc taagaatgac tctgtgatct      420
ttgccctggc tgtgcttcta agcagcagct ttgtctataa cagcgtgagc accatcaacc      480
accaggccct ggagcagctg cactatgtga ctgagctagc agagctaatc agggcaaaat      540
cctgccccag acctgatgaa gctgaggact ccagcgagtt tgcgagtttc tttccagact      600
ttatttgac tggtcgggat tttaccctgg agctaaagtt agatggaaac cccatcacag      660
aagatgagta cctggagaat gccttgaagc tgantncag gcaagaatnc caaaantcaa      720
aattcaaaca tgcctagaga gtgnattaa gcanthtctt ccgaaaaccg gaagtgcctt      780
tgctttgac cgggctacaa atggacaagc caatatttaa aatcattntg gacnaantgc      840
cngaagaaaa tctggaaagg catttcctta tgccatcaga caac      884

```

&lt;210&gt; 504

&lt;211&gt; 612

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 504

```

gagacggagt ttgcgtctgt cgcccaggct ggagtgcagt ggcgcgatct cgactcactg      60
caagctccgc ctctctgggt cagccattc tctgcctca gcctcccggt tagctgggac      120
tacaggcgcg tgccaccatg cccggctaatt ttttgattt ttagtagaga cgggggttca      180
ccgtgttagc caggatggtc tcatctcct gacctcgtga tccaccctgc tcggcctccc      240
aaagtgcctg gattacaggc aatgagttga tttttaacta ctgggttttag gccaggcagg      300
cccaggcctg gttttgggco tggcgctggg ctgcctgtct ttgggttttac ttccttggtg      360
ntttttctta aaacaggtag tgagtatcaa acaatataaa acaatataag aaggtctctc      420
tcttcctca attctagctg caagttttga gcactagaca gcagaaataa attcctaaaa      480
tggtgagttg agcaaatagt tcaatgctat ccctatcaaa ctaccaatga cattntttac      540
nagaaattag aaactacttt aaaaatttca tatgggaacn aaaaaagagc cttaccnag      600
gnaanccta aa      612

```

&lt;210&gt; 505

&lt;211&gt; 2215

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 505

ctcagatgct	cactgcagtc	caagagatct	cccatctcat	tgagccgctg	gccaatgctg	60
cccgggctga	agcctcccag	ctgggacaca	aggtgtccca	gatggcgag	tactttgagc	120
cgctcaccct	ggctgcagtg	ggtgctgcct	ccaagaccct	gagccaccg	cagcagatgg	180
cactcctgga	ccagactaaa	acattggcag	agtctgccct	gcagttgcta	tacactgcca	240
aggaggctgg	tggtaaccca	aagcaagcag	ctcacacca	ggaagccctg	gaggaggctg	300
tgcagatgat	gaccgaggcc	gtagaggacc	tgacaacaac	cctcaacgag	gcagccagtg	360
ctgctggggg	cgtgggtggc	atgggtggact	ccatcaccca	ggccatcaac	cagctagatg	420
aagagccaat	gggtgaacca	gaaggttcct	tcgtggatta	ccaaacaact	atggtgcgga	480
cagccaaggc	cattgcagtg	actgttcagg	agatggttac	caagtcaaac	accagcccag	540
aggagctggg	ccctcttgct	aaccagctga	ccagtgaacta	tggccgtctg	gcctcggagg	600
ccaagcctgc	agcgggtggc	gctgaaaatg	aagagatagg	ttcccatatc	aaacaccggg	660
tacaggagct	gggccatggc	tgtgccgctc	tggtcaccaa	ggcaggcgcc	ctgcagtgca	720
gccccagtg	tgccctacac	aagaaggagc	tcataagagt	tgcccggaga	gtctctgaga	780
aggtctccca	cgtcctggct	gcgctccagg	ctgggaatcg	tggcaccacg	gcctgcatca	840
cagcagccag	cgctgtgtct	ggtatcattg	ctgacctcga	caccaccatc	atgttcgcca	900
ctgctggcac	gctcaatcgt	gagggtactg	aaactttcgc	tgaccaccg	gagggcatcc	960
tgaagactgc	gaaggtgctg	gtggaggaca	ccaaggtcct	ggtgcaaac	gcagctggga	1020
gccaggagaa	ggtggcgag	gctgcccagt	cctccgtggc	gaccatcacc	cgctcgtctg	1080
atgtggtcaa	gctgggtgca	gccagcctgg	gagctgagga	ccctgagacc	caggtggtac	1140
taatcaacgc	agtgaagat	gtagccaaag	ccctgggaga	cctcatcagt	gcaacgaagg	1200
ctgcagctgg	caaagtggga	gatgaccctg	ctgtgtggca	gctaaagaac	tctgccaaag	1260
tgatggtgac	caatgtgaca	tcattgctta	agacagtaaa	agccgtggaa	gatgaggcca	1320
ccaaaggcac	tcggggccctg	gaggcaacca	cagaacacat	acggcaggag	ctggcggttt	1380
tctgttcccc	agagccacct	gccaaagacct	ctacccaga	agacttcac	cgaatgacca	1440
agggtatcac	catggcaacc	gccaaaggccg	ttgtgtctgg	caattcctgt	cgccagggaag	1500
atgtcattgc	cacagccaat	ctgagccgccc	gtgctattgc	agatatgctt	cgggcttgca	1560
aggaagcagc	ttaccacca	gaagtggccc	ctgatgtgcg	gcttcgagcc	ctgcactatg	1620
gccgggagtg	tgccaatggc	tacctggaac	tgctggacca	tgtactgctg	accctgcaga	1680
agccaagccc	agaactgaag	cagcagttga	caggacattc	aaagcgtgtg	gctggttccg	1740
tactgagct	catccaggct	gctgaagcca	tgaagggaac	agaatgggta	gaccagagg	1800
acccacagct	cattgtgtag	aatgagctcc	tgggagctgc	agccgccatt	gaggctgcag	1860
ccaaaaagct	agagcagctg	aagccccggg	ccaaacccaa	ggaggcagat	gagtccttga	1920
actttgagga	gcagatacta	gaagctgcca	agtcatttgc	agcagccacc	agtgcactgg	1980
taaaggctgc	gtcggctgcc	agagagaact	agtgggccaa	gggaaagtgg	gtgccattcc	2040
aagcaatgca	ctggacgatg	ggcagtggtc	ccangggcct	catttctgct	gcccngatgg	2100
tggcttgccg	ccaccaacaa	nttgtgtgaa	ggcagccaat	gcaactgtcc	aagggcattgc	2160
caagccngga	anaactnatn	ttattcagcc	caacaggtaa	cttgcccttc	acaag	2215

&lt;210&gt; 506

&lt;211&gt; 742

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 506

ggcagcaggt	aacccaaagc	aagcagctca	cacccaggaa	gccctggagg	aggctgtgca	60
gatgatgacc	gaggccgtag	aggacctgac	aacaaccctc	aacgaggcag	ccagtgtctg	120
tggggctcgt	ggtggcatgg	tggactccat	caccagggcc	atcaaccagc	tagatgaagg	180
accaatgggt	gaaccagaag	gttccttcgt	ggattaccaa	acaactatgg	tgcgacagc	240
caaggccatt	gcagtgaccg	ttcaggagat	ggttaccaag	tcaaaccacca	gccagagga	300
gctgggcccct	cttgctaacc	agctgaccag	tgactatggc	cgtctggcct	cggaggccaa	360
gcctgcagcg	gtggctgctg	aaaatgaaga	gataggttcc	catatcaaac	accgggtaca	420
ggagctgggc	catggctgtg	ccgctctggt	caccaaggca	ggcgccctgc	agtgcagccc	480

cagtgatgcc	tacaccaaga	aggagctcat	agagtgtgcc	cggagagtct	ctgagaaggt	540
ctcccacgtc	ctggctgcgc	tccaggctgg	gaatcgtggc	accagggcct	gcatcacagc	600
agccagcgct	gtgtctggta	tcattgctga	cctcgacacc	accatcatgt	tcgccacttg	660
ctggcacgct	caatcgtgag	ggtagctgaa	ctttcgctga	ccaccgggan	ggcatnctga	720
agactgcgaa	ngtgcgtgtg	ga				742

&lt;210&gt; 507

&lt;211&gt; 735

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 507

gtaggtagaa	tcatttttat	tggagcatga	cctgtttggg	gcttataact	ctgcagcccc	60
tatgggtagc	tgggggtggg	ggaagatagt	atcaaaaaac	ggtgaagaga	gctgatgagg	120
ctgtggggac	tggctggaag	ctgctggcag	ggtggagtgg	gctggggccc	cggcagattc	180
agatcgaggt	acagcagcgt	taataatact	cttggagcgt	taatactctg	gggaggggca	240
ggcacttggg	ggggccctagg	gcatgaaggc	acttgggggt	ggggagggga	caggggatgt	300
actgcgggac	tgggcggggc	caggccctgg	ggtttggcag	gcactttggg	gagtgcctgg	360
gttgggcagg	ttgggccccg	acagcccaga	aggctttggt	agtggcacgc	acagtctctg	420
ggccgggtct	gcattaaata	gaagaggctt	ctttagtgtc	catctcgaag	ctctgaaggc	480
agaaacttgt	actgctgctg	cggatcttgg	gccagtttct	tccngcctc	ttccagctct	540
cgttccttcc	gaagcatttc	ttcctgngct	gcgatgatct	gggcaatgcc	cgccaaccat	600
cttctcttta	ccaccactgg	cttnattctc	ctgctcttca	aaggctgcaa	ccttctgggc	660
tgnnttnacc	agattatctg	angctcgctt	cactgngttg	ncagcaacct	tgaatccgtt	720
tcatttgccc	tccag					735

&lt;210&gt; 508

&lt;211&gt; 666

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 508

gtaggtagaa	tcatttttat	tggagcatga	cctgtttggg	gcttataact	ctgcagcccc	60
tatgggtagc	tgggggtggg	ggaagatagt	atcaaaaaac	ggtgaagaga	gctgatgagg	120
ctgtggggac	tggctggaag	ctgctggcag	ggtggagtgg	gctggggccc	cggcagattc	180
agatcgaggt	acagcagcgt	taataatact	cttggagcgt	taatactctg	gggaggggca	240
ggcacttggg	ggggccctagg	gcatgaaggc	acttgggggt	ggggagggga	caggggatgt	300
actgcgggac	tgggcggggc	caggccctgg	ggtttggcag	gcactttggg	gagtgcctgg	360
gttgggcagg	ttgggccccg	acagcccaga	aggctttggt	agtggcacgc	acagtctntg	420
ggccgggtct	gcattaaata	gaagaggctt	ctttagtgtc	catctngaag	ctctgaaggc	480
agaaacttgt	actgctgctg	cggatcttgg	gccagtttct	ttccgcgcct	ttccagctc	540
tcgttccttt	ccgaagcatt	tcttcctgng	ctgccatgat	tctgggccat	gcccgccaac	600
catcttctct	tttaccanc	attggcttna	ttctcctgct	ctttcaaaag	gcttgnagnc	660
tttctg						666

&lt;210&gt; 509

&lt;211&gt; 818

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 509

ctcagatgct	cactgcagtc	caagagatct	cccatctcat	tgagccgctg	gccaatgctg	60
cccgggctga	agcctcccag	ctgggacaca	aggtgtccca	gatggcgagc	tactttgagc	120
cgtccaccct	ggctgcagtg	ggtgctgcct	ccaagaccct	gagccaccgc	cagcagatgg	180
cactcctgga	ccagactaaa	acattggcag	agtctgcctc	gcagttgcta	tacactgcca	240

aggaggctgg	tggtaaccca	aagcaagcag	ctcacacca	ggaagccctg	gaggaggctg	300
tgcagatgat	gaccgagggc	gtagaggacc	tgacaacaac	cctcaacgag	gcagccagtg	360
ctgctggggg	cgtgggtggc	atgggtggact	ccatcaccca	ggccatcaac	cagctagatg	420
aaggaccaat	gggtgaacca	gaaggttcct	tcgtggatta	ccaaacaact	atgggtgcgga	480
cagccaaggc	cattgcagtg	actgttcagg	agatggttac	caagtcaaac	accagcccag	540
aggagctggg	ccctcttgct	aaccagctga	ccagtgacta	tggccgtctg	gcctcggagg	600
ccaagcctgc	agcgggtggc	gctgaaaatg	aagagatagg	ttccatatca	aacaccgggt	660
acaggagctg	ggccatggct	tgtgccgctc	tggtcaccaa	ngcangcgcc	ctgantgcaa	720
gcccgatgat	gcctacccaa	gaaggagctc	atagagtgtg	cccggagaag	tttttgaaag	780
gtcttccacg	tnctgggttg	cttcaagctt	gggaatcg			818

&lt;210&gt; 510

&lt;211&gt; 651

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 510

gtaggtagaa	tcatttttat	tggagcatga	cctgtttggg	gcttataact	ctgcagcccc	60
tatgggtagc	tgggggtggg	ggaagatagt	atcaaaaaac	ggtgaagaga	gctgatgagg	120
ctgtggggac	tggctggaag	ctgctggcag	ggtggagtgg	gctggggccc	cggcagattc	180
agatcgaggt	acagcagcgt	taataatact	cttggagcgt	taataactct	gggaggggca	240
ggcacttggg	gggccctagg	gcatgaaggc	acttgggggt	ggggagggga	caggggatgt	300
actgcgggac	tgggcggggc	caggccctgg	ggtttggcag	gcactttggg	gagtgcctgg	360
gttgggcagg	ttgggccccg	acagcccana	aggctttggg	agtggcacgc	acagtctctg	420
ggccgggtct	gcattaaata	gaagaggctt	ctttagtgtc	catctcgaag	ctctgaaggc	480
aanaaacttg	tactgctgct	gcncggatct	gggccanttt	cttcgcgcgc	tcttccanct	540
ctcgttcctt	ccgaagcatt	tcttccctgg	tgccgatgat	ctggncaatg	ccgccaacca	600
tcttctcttt	caccaccact	tggctcaatt	cttcctggct	ctttcaaagg	c	651

&lt;210&gt; 511

&lt;211&gt; 712

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 511

gtaggtagaa	tcatttttat	tggagcatga	cctgtttggg	gcttataact	ctgcagcccc	60
tatgggtagc	tgggggtggg	ggaagatagt	atcaaaaaac	ggtgaagaga	gctgatgagg	120
ctgtggggac	tggctggaag	ctgctggcag	ggtggagtgg	gctggggccc	cggcagattc	180
agatcgaggt	acagcagccg	ttaataatac	tcttggagcg	ttaataactct	ggggaggggc	240
aggcacttgg	ggggccctag	ggcatgaagg	cacttggggg	tggggagggg	acaggggatg	300
tactgcggga	ctgggcgggg	ccaggccctg	gggtttggca	ggcactttgg	ggagtgcctg	360
ggttgggcag	gttgggcccc	gacagcccag	aaggctttgg	tagtggcacg	cacagtctct	420
gggcggggtc	tgcattaaat	agaagaggct	tctttagtgc	tcactctgaa	gctctgaagg	480
cagaaacttg	tactgctgct	gccgatctg	ggccagtttc	ttcgcgcgct	cttccagctc	540
tcgttccttc	cgaagcatth	cttcctgtgc	tgccgatgat	ctgggcaatg	cccggcaacc	600
atcttctctt	ttaccaccac	tgggctcatt	ctcctgctct	tcaaaangct	gcagcccttt	660
tgggctgntt	ttcaccagaa	ttaatcttga	ngentcgctt	tnacttgctg	tg	712

&lt;210&gt; 512

&lt;211&gt; 850

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 512

aggagctggc	ggttttctgt	tccccagagc	cacctgccaa	gacctctacc	ccagaagact	60
------------	------------	------------	------------	------------	------------	----

tcattccgaat	gaccaagggt	atcaccatgg	caaccgccaa	ggccgttgct	gctggcaatt	120
cctgtcgcca	ggaagatgtc	attgccacag	ccaatctgag	ccgccgtgct	attgcagata	180
tgcttcgggc	ttgcaaggaa	gcagcttacc	accagaagt	ggccctgat	gtgcggcttc	240
gagccctgca	ctatggccgg	gagtgtgcca	atggctacct	ggaactgctg	gaccatgtac	300
tgctgacct	gcagaagcca	agcccagaac	tgaagcagca	gttgacagga	cattcaaagc	360
gtgtggctgg	ttccgtcact	gagctcatcc	aggctgctga	agccatgaag	ggaacagaat	420
gggtagaccc	agaggacccc	acagtcatcg	ctgagaatga	gctcctggga	gctgcagccg	480
ccattgaggc	tgacagccaa	aagctagagc	agctgaagcc	ccgggccaaa	cccaaggagg	540
cagatgagtc	cttgaacttt	gaggagcaga	tactagaagc	tgccaagtcc	attgcagcag	600
ccaccagtgc	actggtaaag	gctgcgtcgg	ctgccagaga	gaactagtgg	cccaaggga	660
agtgggtgcc	attccaagca	atgcactgga	cgatgggcag	tggtcccang	ggcctcattt	720
ctgctgcccn	gatgggtggc	tgcgccacc	aacaanttgt	gtgaaggcag	ccaatgcaac	780
tgccaaggg	catgccaaagc	cnggaanaac	tnatnttatt	cagcccaaca	ggtaacttgc	840
ctttcacaag						850

&lt;210&gt; 513

&lt;211&gt; 727

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 513

gtaggtagaa	tcatttttat	tggagcatga	cctgtttggg	gcttataact	ctgcagcccc	60
tatgggtagc	tgggggtggg	ggaagatagt	atcaaaaaac	ggtgaagaga	gctgatgagg	120
ctgtggggac	tggctggaag	ctgctggcag	ggtggagtgg	gctggggccc	cggcagattc	180
agatcgaggt	acagcagcgt	taataatact	cttggagcgt	taataactctg	gggaggggca	240
ggcaacttggg	gggccctagg	gcatgaaggc	acttgggggt	ggggagggga	caggggatgt	300
actgcccggac	tgggcggggc	caggccctgg	ggtttggcag	gcactttggg	gagtgtctggg	360
gttgggcagg	ttgggccccg	acagcccana	aggctttggg	agtggcacgc	acagtctctg	420
ggcccgggtc	tgcatataat	agaagaggtc	tctttagtgc	tcattctcgaa	gctctgaagg	480
cagaaaacttg	tactgtctgt	gccgatctg	ggccangttt	cttccnggcc	tcttccagct	540
tctcgttctc	tccgaaagca	tttcttctg	tgcttgcnat	gaatcntggg	caatgcccg	600
ccaaccctc	ttctctttca	ccaccactgg	tctnatttct	cctnngtct	tcaaaaggct	660
tgcaagcctt	ctgggctggc	ctttcaccca	ganttaattt	naagnctcgc	tttacttggg	720
tttgcca						727

&lt;210&gt; 514

&lt;211&gt; 877

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 514

cagcagccag	cgctgtgtct	ggtatcattg	ctgacctcga	caccaccatc	atgttcgcca	60
ctgctggcac	gctcaatcgt	gagggtagtg	aaactttcgc	tgaccaccgg	gagggcatcc	120
tgaagactgc	gaaggtgctg	gtggaggaca	ccaaggtcct	ggtgcaaaac	gcagctggga	180
gccaggagaa	gttggcgag	gctgccagtg	cctccgtggc	gaccatcacc	cgcctcgctg	240
atgtggtcaa	gctgggtgca	gccagcctgg	gagctgagga	ccttgagacc	caggtggtac	300
taatcaacgc	agtgaagat	gtagccaaag	ccctgggaga	cctcatcagt	gcaacgaagg	360
ctgcagctgg	caaagttgga	gatgacctg	ctgtgtggca	gctaaagaac	tctgccaaag	420
tgatggtgac	caatgtgaca	tcattgctta	agacagtaaa	agccgtggaa	gatgaggcca	480
ccaaaggcac	tcggggccctg	gaggcaacca	cagaacacat	acggcaggag	ctggcggttt	540
tctgttcccc	agagccacct	gccaaagacct	ctaccccaga	agacttcac	cgaatgacca	600
agggtatcac	catggcaacc	gccaaagccgt	tgctgtgca	attcctgtcg	ccaggaagat	660
gtcattgcca	cagccaatct	gagcccgcgg	tgctattgca	gatatgcttc	ggctttgcaa	720
ggaagcagct	taccacccag	aagtgggccc	tgatgtgcgg	nttcaancct	gnactatggc	780
ccggagtgtg	ccaatggcta	cctgggaact	ggttggaacca	ttgtacttgg	tgacccttgc	840

aaaagcccag cccagaaact tgaagccagc agtttgc

877

<210> 515  
 <211> 685  
 <212> DNA  
 <213> Homo Sapiens

<400> 515  
 gtaggtagaa tcatttttat tggagcatga cctgtttggg gcttataact ctgcagcccc 60  
 tatgggttagc tgggggtggg ggaagatagt atcaaaaaac ggtgaagaga gctgatgagg 120  
 ctgtggggac tggctggaag ctgctggcag ggtggagtgg gctggggccc cggcagattc 180  
 agatcgaggc acagcagcgt taataatact cttggagcgt taataactctg gggaggggca 240  
 ggcaacttggg gggccctagg gcatgaaggc acttgggggtt ggggagggga caggggatgt 300  
 actgcgggac tgggcggggc caggccctgg ggtttggcag gcactttggg gagtgcctggg 360  
 gttgggcagg ttgggccccg acagcccaaa aggcctttggt agtggcacgc acagtctctg 420  
 ggccgggtct gcattaaata gaagaggctt ctttagtgct catctcgaaa ctcttgaagg 480  
 cagaaacttt gtactgtctg ttgccggatc tgggccagtt tcttccgcgc ctcttcagct 540  
 tntcgttcct ttccgaancc atttctttcc tgnngcttgc natgaatctt gggcaaatgc 600  
 ccgccaaccc atcttctctt ttacccccac cacctgggnc cattctctctg ctcttcaaaa 660  
 ngcttgcaac cctttcttgg ngctn 685

<210> 516  
 <211> 790  
 <212> DNA  
 <213> Homo Sapiens

<400> 516  
 gggttaacata cgaagaaaga atggctcgtc gactgctagg tgetgacagt gcaactgtct 60  
 ttaatatcca ggagccagaa gaggaaacag ctaatcagga atacaaagtc tccagctgtg 120  
 aacagagact catcagtcaa atagagtaca ggctagaaag gtctcctgtg gatgaatcag 180  
 gtgatgaagt tcagtatgga gatgtgcctg tggaaaatgg aatggcacca ttctttgaga 240  
 tgaagctgaa acattacaag atctttgagg gaatgccagt aactttcaca tgtagagtgg 300  
 ctggaaatcc aaagccaaag atctattggt taaagatgg gaagcagatc tctccaaaga 360  
 gtgatcacta caccattcaa agagatctcg atgggacctg ctccctccat accacagcct 420  
 ccaccctaga tgatgatggg aattatacaa ttatggctgc aaaccctcag ggccgcatca 480  
 gttgtactgg acggctaata gtacaggctg tcaaccaaag aggtcgaagt ccccggtctc 540  
 cctcaggcca tcctcatgtc agaaggcctc gttctagatc aagggacagt ggagacgaaa 600  
 atgaaccaat tcaggagcga ttcttcagac ctcaacttct gcaggctcct ggagatctga 660  
 ctgttcaaga aggaaaactc tgcagaatgg actgcaaagt cagtgggtta ccaaccccca 720  
 gatctaagct ggcaactaga tggaaagccc gtacgacctg acagtgtctc caagaaagcc 780  
 tgggtgcctga 790

<210> 517  
 <211> 747  
 <212> DNA  
 <213> Homo Sapiens

<400> 517  
 atagtcaaa gtagttttct gccttttaca tantgtgaca aaggaatatg ttggtcaagg 60  
 caatggctgt ttcagtgttt cagctttaac aagaatgctg gattacaggt cctcactttc 120  
 taccaaggca gtattcagtg tcaggtgaga tgggttggcc tcaggttgga acgctgcttt 180  
 gatgtctagt ccctgggtccg aaagtgtctg atagcgactg gctgagggcc gtactttttt 240  
 tggcttgggt ctctgtgact gctgatgcca ctgggtgtaa acgtccagcc tggcagtaca 300  
 ggacacaatc cctgcttcat tcttggctga cacagtatac caccagcat cttcttttgt 360  
 ggctccctga atgagcaggc agatgtagcc gtggttgtcc tgggtgcatg tcaactcggtc 420



agtgtgtga	gtgagtgtg	attttttttt	cttccaaaat	atctgaggtg	gtggcactcc	480
caatacacga	cattccagcc	gcactgggta	cccatcagca	actcctgtgt	tttggagctt	540
ctcaataaac	acaggggggt	tgtgtgcttc	tttagcagca	accacaagct	ccaggctgaa	600
tgagttctgt	cctgtctggg	tggtagctat	acatgtgtag	atgccggcat	cacgtgacgt	660
gactggctct	atgatcagag	agtgcacccc	gttcttttacg	caccagcacc	ttgggagccc	720
tgtaaggcg	taccggcttt	ccatcta				747

&lt;210&gt; 518

&lt;211&gt; 926

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 518

agaaagcaga	gccttctgaa	gttgacatga	attctcctaa	atccaaaaag	gcaaaaaaga	60
aagaggagcc	atctcaaaat	gacattttctc	ctaaaaccaa	aagtttgaga	aagaaaaagg	120
agcccattga	aaagaaagt	gtttcttcta	aaacaaaaaa	agtgcacaaa	aatgaggagc	180
cttctgagga	agaaatagat	gctcctaagc	ccaagaagat	gaagaaagaa	aaggaaatga	240
atggagaaac	tagagagaaa	agccccaaac	tgaagaatgg	atttcctcat	cctgaaccgg	300
actgtaaccc	cagtgaagct	gccagtgaag	aaagtaacag	tgagatagag	caggaaatac	360
ctgtggaaca	aaaagaaggc	gctttctcta	attttcccat	atctgaagaa	actattaaac	420
ttctcaaagg	cagaggagt	accttcctat	ttcctataca	agcaaagaca	ttccatcatg	480
tttacagcgg	gaaggactta	attgcacagg	cacggacagg	aactgggaag	acattctcct	540
ttgccatccc	tttgattgag	aaacttcatg	gggaactgca	agacaggaag	agaggccgtg	600
ccctcaggt	actggttctt	gcacctacaa	gagagttggc	aaatcaagta	agcaaagact	660
tcagtgcacat	cacaaaaaaa	gcttgtcagt	gggcttggtt	tttatggtgg	aacttcctat	720
ggaggtcaat	ttggaccgca	tggangnaat	gggaattgga	taatcctggg	ttggaacacc	780
angtcgtatc	aaaggaccnc	antacnggaa	tgggcaaact	aagatcttca	cccaaacttt	840
aagccatggt	ggcccttggg	atgaaagtgg	ggncccagan	tgtttgggaa	atngggaatt	900
tgcttgatca	aagtggggaa	gaagaa				926

&lt;210&gt; 519

&lt;211&gt; 789

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 519

acatactctt	gagcaatgct	aatctgcgcc	ccttactccc	ttaagtcctt	cttggtaaat	60
aatgttaatc	ttccaatagg	agaagtggga	gtacattacc	atttaagcac	catttatcca	120
gcctacttac	aaataaagct	atggagccac	cttatacatg	tgaaattcct	taaaaccctg	180
gctttctatt	aaaatgtact	tttatatata	ctatctatga	agaattcact	aaagcatgaa	240
tcaccttata	atgagaagct	aaaaatgtat	caaaacgaac	ataagtatag	gtaatccaca	300
tcaaacatac	tacatcttcc	aagtctagag	catacactgg	tataaactgt	attacaaccc	360
agattagttt	gaaatcttgt	ttcaaaacat	tgctcagtat	taagtctcag	tagacaaata	420
ataggaccac	atgagaaact	gttcggcagg	tggtgagga	aaccttaact	tccaaaggct	480
caaagtggtc	ctccagagac	tgttacactc	ccttaggtat	ttatttcagg	gaaggacact	540
attaagggac	actttttgag	ataaagacag	gtgaactcac	aaagtatagg	cagatcatgc	600
ttgattttat	cttctaactc	acaggataat	acattagaat	aaaaatgtaa	tgaattcata	660
cacctttcaa	aanggaaaaa	ctggatgaag	taacnnntaa	agntataaat	ggataatgga	720
tccggatgaa	aataaatttt	aaaatggaaa	ccttggctgn	gtctgaaaga	agaccgggac	780
tttgcaag						789

&lt;210&gt; 520

&lt;211&gt; 827

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

<400> 520  
 gtgatatagt gcttgtcatt ttaattgtaa catattacca aaaagcttta tatacatagc 60  
 ttatatactat ttacattgca gtagaggaat ggcaatgcta acaggtgatc agtgcttcca 120  
 aactttttca atacctacac atgggagatc taaagagtac aatataattta agacttctaa 180  
 ggaattgttt tctcctcact aataaagcat gccctgacta aagagaagtc ctgtaggcac 240  
 agccttatct attcaatgac tggcacctcc caggggtact gacacacaaa gtgccttcac 300  
 tggaccttac agttctcact gcccttggac tccagtccag ctttggggct ggggacaagt 360  
 cggcctcgct tgaccctcag gccctctctg gggctgtcag tccgacttct ctcaggaaga 420  
 ttattgactg ggacggattt cgtggtgggt tctcggagga tgggtgcctga atctactggg 480  
 ctccgctgag caactttgac cttttgtgat ctgctgccac cagctgttgg tttggaggac 540  
 tctgcaagat tttctttgcc gagactcagt ggggatagcg ctaacttctg tgcagccagg 600  
 cgggggctgg tccgagttgc catggttggg cttcgcagga tatatgggct aagtctttnc 660  
 tgtcgggatg tcagcaaac ctttctttac aacttctgga agtccctctg gctcaaaactt 720  
 agtaccttcg ngnccttctg anggtgaata ccactcatga ctgntttctt gcttttttta 780  
 gaaaagctct ctggggtaac aggtgtgggn ccttcacat tcttccc 827

<210> 521

<211> 710

<212> DNA

<213> Homo Sapiens

<400> 521  
 gtgatatagt gcttgtcatt ttaattgtaa catattacca aaaagcttta tatacatagc 60  
 ttatatactat ttacattgca gtagaggaat ggcaatgcta acaggtgatc agtgcttcca 120  
 aactttttca atacctacac atgggagatc taaagagtac aatataattta agacttctaa 180  
 ggaattgttt tctcctcact aataaagcat gccctgacta aagagaagtc ctgtaggcac 240  
 agccttatct attcaatgac tggcacctcc caggggtact gacacacaaa gtgccttcac 300  
 tggaccttac agttctcact gcccttggac tccagtccag ctttggggct ggggacaagt 360  
 cggcctcgct tgaccctcag gccctctctg gggctgtcag tccgacttct ctcaggaaga 420  
 ttattgactg ggacggattt cgtggtgggt tctcggagga tgggtgcctga atctactggg 480  
 ctccgctgag caactttgac cttttgtgat ctgctgccac cagctgttgg tttggaggac 540  
 tctgcaagat tttctttgcc gagactcagt ggggatagcg ctaacttctg tgcagccagg 600  
 cgggggctgg tccgaagtgc ccatgggttg ntctccagg atatatgggc taagnctttc 660  
 ctgtcgggat gtcagcaaaa ccctttcttt acaacttctg gaaagcccct 710

<210> 522

<211> 638

<212> DNA

<213> Homo Sapiens

<400> 522  
 atagncttg tcattttaat tgtaacatat taccaaaaag ctttatatac atagctttat 60  
 actatttaca ttgcagtaga ggaatggcaa tgctaacagg tgatcagtg tccaaaactt 120  
 tttcaatacc tacacatggg agatctaaag agtacaatat atttaagact tctaaggaat 180  
 tgttttctcc tcactaataa agcatgccct gactaaagag aagtcctgta ggcacagcct 240  
 tatctattca atgactggca cctcccaggg gtactgacac acaaagngcc ttcactggac 300  
 cttacagtgc tcaactgccct tggactccag tccagctttg gggctgggga caagtgcgcc 360  
 tcgcttgacc ctnagggcct ctctggggct gtcagtcgga cttctntcag gaagattatt 420  
 gactgggacg gatttcgtgg tgggttctcg gaggatggg cctgaatcta ctgggctccg 480  
 ctgagcaact ttgacctttt gngatctgct gccaccagct gttgggttgg aggactntgc 540  
 aagattttct ttgccgagac ttantggggg atagcgctaa cttctggngc agccangcgg 600  
 gggctggtcc naanttgcca tggntgntct tcncagga 638

<210> 523

<211> 833

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 523

cgacacttag	accgagtggg	ctccatcctg	ctcaccacac	ttggggatga	caatttgcct	60
ggaataaaca	gcatgttaca	gcggaaaatt	gcagagctcg	aggaagaaca	gtcccagggc	120
tccaccacaa	atagtgactg	gatgaaaaac	ctcatctccc	ctgacttagg	agttgtatgt	180
ctcaatgtac	ctgaaaatct	caaaaatcca	gagccaaaca	tcaagatgaa	gagaagcata	240
gaagaagcct	gcttcactct	ccagtaccta	aacaaattgt	ccatgaaacc	agaacctctg	300
tttagaagtg	taggcaatac	tattgatcct	gtcattcttt	tccaaaaaat	gggagtaggt	360
aaacttgaga	tgtatgtgct	taatccagtc	aagagcagca	aggaaatgca	gtattttatg	420
cagcagtggg	ctggtacca	caaagacaag	gctgaattca	ttctgcctaa	tggccaagaa	480
gtagatctcc	cgatttccta	cttaacttca	gtctcatctt	tgattgtgtg	gcatccagca	540
aacctgctgg	agaaaatcat	ccgagtcctg	tttctggtga	acagcaccca	gtacaacatc	600
ctggaagggt	tggaaaagct	caaacatcta	gactttctga	agcagccact	ggccacccaa	660
aaggatctca	ctggccaggt	gccactcct	gtggtgaaac	aaacaaaact	gaacagaggg	720
cttgatagcc	gagaaagtct	gaagcccagc	cgcaaaanca	ctttctagca	aatccggcg	780
ccaaggagtc	aaaagaagaa	acctctgagg	tcacaaaagg	tggaatcacg	tgg	833

&lt;210&gt; 524

&lt;211&gt; 766

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 524

cacttctctc	ttctcttctc	tcttaacttc	cttcttgact	tcctttggcg	gtgtttcttt	60
cttaacctct	ttcttgggtt	ctttttcttc	ttctttcttg	atctcttttt	tgacttcttt	120
tttcacctct	tccttttttg	gtttttcttc	cttcttgata	ggtgttttgt	cctccttttt	180
agccacttct	ttctttggct	tttctttctc	ctctttcttg	tcttcaggct	ttacctttgt	240
ttcctttttc	accgtcttct	ccttggcagc	tttgggtttg	acatctgttg	cttgettctc	300
agccacctcg	gctttcactg	gagatggctc	ttctttgctg	ggaacctcct	tttcagtcac	360
tgaaggtttg	gtctctgttt	ttattggctt	gtcttttttc	accattacct	tttctttgct	420
ttcaactttg	ggtggctttt	ccacgtgatt	cacttttggtg	acctcagggg	tttcttcttt	480
tgactccttg	cgcacggatt	tgctaggaag	tggttttgcg	gctggcttca	gactttctcg	540
gctatcagcc	ctctgtttca	gttttggttg	tttcaccaca	ggagtgggca	cctggccagt	600
gaganctttt	tgggtggcca	gtggctggtt	cagaaagtct	aaanggtttg	aggcttttnc	660
aacctttcag	gaatggtgga	ccgggtgct	ggtcccagga	aacaggactc	ggatggattt	720
ttctcccaaa	gggtttgctg	gaagcccca	caaatacaag	gaagga		766

&lt;210&gt; 525

&lt;211&gt; 847

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 525

cagcagccgg	caggatggcg	accgtggtgg	tggaaagccac	cgagccggag	ccgtccggca	60
gcatcgccaa	cccggcgcg	tccacctcgc	ctagcctgtc	gcaccgcttc	cttgacagca	120
agttctactt	gctggtggtc	gtcggcgaga	tcgtgaccga	ggagcacctg	cggcgtgcca	180
tcggcaacat	cgagctcgga	atccgatcat	gggacacaaa	cctgattgaa	tgcaacttgg	240
accaagaact	caaacttttt	gtatctcgac	actctgcaag	attctctoct	gaagtccag	300
gacaaaagat	ccttcacac	cgaagtgcg	ttttagaaac	agtggctctg	atcaacctt	360
ctgatgaagc	agtcagcacc	gaggtgcgct	taatgatcac	tgatgctgcc	cgacacaagc	420
tgctcgtgct	gaccgggcag	tgctttgaaa	ataccggaga	gtcattctc	cagtccggct	480
ctttctcctt	ccagaacttc	atagagattt	tcaccgatca	agagatcggg	gagttactaa	540
gcaccaccca	tcttgccaac	aaagccagct	taacctgtt	ctgtcctgaa	gaaggggact	600

ggaagaactc	caatcttgac	agacacaatc	tccaagactt	catcaatatt	aaactcaatt	660
cagcttctat	cttgccagaa	atggaaggac	tttctgagtt	taccgagtat	ctctcagaat	720
caagtggaa	tcccatctcc	ttttgacatc	ttgggaacct	tccacatcgg	gtggatttct	780
gaagcttttc	caagccctgt	ggtataattt	ttccaggang	gaagggccaa	ttttgccttg	840
gttgcaa						847

&lt;210&gt; 526

&lt;211&gt; 746

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 526

cttgatctct	tttttgactt	ctttttttcac	ctcttctctt	tttggttttt	cctccttctt	60
gatagggtgt	ttgtcctcct	ttttagccac	ttctttcttt	ggcttttctt	tctccttctt	120
cttgcttcca	ggctttacct	ttgtttcctt	tttcaccgtc	ttctccttgg	cagctttggg	180
tttgacatct	gtggcttgct	tctcagccac	ctcggcttct	actggagatg	gctccttctt	240
gctgggaacc	tcctttttcag	tcactgaagg	tttggtctct	gttttattgg	cttgcttttt	300
ttcaccatta	ccttttcttt	gctttcaact	ttgggtggct	tttccacgtg	attcactttt	360
gtgacctcag	gggtttcttc	ttttgactcc	ttgcgcacgg	atttgctagg	aagtggtttt	420
gcggtctggt	tcagactttc	tcggctatca	gccctctggt	tcagttttgt	ttgtttcacc	480
acaggagtgg	gcacctggcc	agtgagatcc	ttttgggtgg	ccagtggctg	cttcagaaaag	540
tctagatgtt	tgagcttttc	caacccttcc	aggatgttgt	actgggtgct	gttcccagga	600
aacaggactc	ggatgatttt	ctcccgcagg	gtttgctgga	agccacacaa	tcaaagatga	660
gaactgaaag	taaagtangg	aaatcgggaa	gaactacttc	ttggaccatt	taggcagaaa	720
ggaattcagc	ccttggtctt	ggtggg				746

&lt;210&gt; 527

&lt;211&gt; 837

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 527

cacttctctc	ttctcttctc	tcttaacttc	cttcttgact	tcctttggcg	gtgtttcttt	60
cttaacctct	ttcttgggtt	ctttttttctc	ttctttcttg	atctcttttt	tgacttcttt	120
tttcacctct	tccttttttg	gtttttctctc	cttcttgata	ggtgttttgt	cctccttttt	180
agccacttct	ttctttggct	tttctttctc	ctctttcttg	tcttcaggct	ttacctttgt	240
ttcctttttc	accgtcttct	ccttggcagc	tttggttttg	acatctgtgg	cttgcttctc	300
agccacctcg	gctttcactg	gagatggctc	ttctttgctg	ggaacctcct	tttcagtcac	360
tgaaggtttg	gtctctgttt	ttattggctt	gtcttttttc	accattacct	tttctttgct	420
ttcaactttg	ggtggctttt	ccacgtgatt	cactttttgt	acctcagggg	tttcttcttt	480
tgactccttg	cgcacggatt	tgctaggaag	tggttttgcg	gctggcttca	gactttctcg	540
gctatcagcc	ctctgtttca	agttttgttt	gnttcaccac	aggagtgggc	acctggccag	600
tgagaccttt	tgggtggcca	agtggctgct	tcagaaaagt	ctagaagggt	tgagcctttt	660
ccaacccttc	caggaagggt	gggacctggg	tgctggttcc	canggaaacc	aggacctcgg	720
gatgaatttt	ctcccgaag	ggtttgcctg	gaatgccccn	acaatccaaa	gaatgaaanc	780
tgaaagttta	antagggaaa	atccgggaga	aactaccttc	ntggaccatt	naggccc	837

&lt;210&gt; 528

&lt;211&gt; 822

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 528

ctcgggacgt	gaaattgaca	gtgaaaagta	tggcagatga	gcaagaaatc	atgtgcaaat	60
tggaagcat	taaagagatc	aggaacaaga	ccctgcagat	ggagaagatc	aaggctcgtt	120

tgaaggctga	gtttgaggca	cttgagtcag	aggaaaggca	cctgaaggaa	tacaagcagg	180
agatggacct	tctgctacag	gagaagatgg	cccattgtgga	ggaactccga	ctgatccacg	240
ctgacatcaa	tgtgatggaa	aacactatca	aacaatctga	gaatgacctt	aacaagctgc	300
tagagtctac	aaggaggctg	catgatgagt	ataagccact	gaaagaacat	gtggatgccc	360
tgcgcatgac	tctgggcctg	cagaggctcc	ctgacttggtg	tgaagaagag	gagaagcttt	420
ccttgattta	ctttgagaag	cagaaagcag	aatggcagac	agaacctcag	gagcccccca	480
tccttgagtc	cctggccgct	gcagcccgc	gccgcccaac	agctccaagt	ggctaggaag	540
caggatactc	ggcagacggc	caccttcagg	cagcagcccc	cacctatgaa	ggcctgcttg	600
tcatgtcacc	agcaaattca	ccggaatgca	cctatatgcc	ctctttgcaa	ggccaagagt	660
cgttccccga	acccccaaaa	gccgaacgga	agcaggatga	ataaaggaaa	gggagagccc	720
atgaagcttt	gctaattata	accccttcac	cttgaccaga	gtcattgatg	tcctgatgtg	780
aaacaaccct	tggcccaacc	ccacgaagtc	tcctatttaa	tg		822

&lt;210&gt; 529

&lt;211&gt; 842

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 529

actttcaaag	agcagaggaa	cattttatat	agtgaacaca	tacacacttg	gcaatgtaaa	60
actacttaag	gaaggaaaaa	tatccccctc	cccagccagg	tactgagacc	tggggctaaa	120
attttttgtc	agtcagcccc	catccccatc	ccttatcttc	gagtgcacct	accaggaaac	180
ctggcttttg	tggaaaaggag	agctgtgggg	cttggggagc	ctgatgcctt	ttcttttggg	240
aggaaaggca	cctgcacaat	ccacaggaca	ggagtggcca	gcagctatcc	tgagctgagg	300
ctccagaaga	gttcagatcc	aagagagcaa	gggatgaaatg	gaaggaaagt	cccaccacc	360
ttcatgtgta	aagtgtattg	catttactca	aatctaaatc	tactcctctc	ctccctgcaa	420
tataccattg	agcatgtgcc	agagtaatgg	ttctgaacaa	aagccaacac	agatgtcagc	480
ctgggggac	tctcagccaa	ggaagcccct	acagccgagc	cctcagccct	aatgacttag	540
gcagtaggtt	aggcaggaga	tgtagaagtt	ggctctggctc	actgatttca	ctgtggaaat	600
cttctactag	aatttgcaaa	gactagatat	tggggaaaag	ttcattgatc	ttaagaatcc	660
caagacacac	agcctagtac	ctaagaattt	taagtatatg	tggggagaca	gaagtgggag	720
aaagctaaag	aattaccggc	catgccttcc	aaatgattat	gaaaanggag	ggcttggtcc	780
aagcttacct	ttgggccttt	aaggatgaan	atgangggta	ggaagtangg	gggatacatg	840
cc						842

&lt;210&gt; 530

&lt;211&gt; 815

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 530

ggaaaaggga	gaaagatagg	gagaaatatt	cccaaagaga	acaagaaaga	gatagacaac	60
aaaatgatca	gaaccgaccc	agtgagaaag	gagagaagga	agagaaaagc	aaagcaaagg	120
aagagcatat	gaaagtaagg	aaggaaagat	atgaaaataa	tgataaatac	agagatagag	180
aaaaacgaga	ggtagggtgtt	cagtcttcag	aaagaaatca	agacagaaaag	gaaagcagcc	240
caaattctag	ggcaaaggat	aaatttcttg	accaagaaag	atccaacaaa	atgagaaaca	300
tggcaaaggga	caaagaaaga	aaccaagaga	aaccctctaa	ttctgaatca	tcactgggag	360
caaaacacag	actcacagag	gaagggcaag	agaagggtta	agaacaagag	agaccacctg	420
aggcagtgag	caagtttgca	aagcgggaaca	atgaagaaac	tgtaatgtca	gctagagaca	480
ggtacttggc	caggcagatg	gcgcgggtta	atgcaaagac	ctatattgag	aaagaagatg	540
attgatggct	acccaagag	aaagatttaa	ggaagcacag	aaaactgtaa	ttcctggaac	600
ctgtgcgta	aaaccataaa	ggagtgtgtt	accagtagt	ttggagggca	tttttaatt	660
tattttcaaa	attttaagtt	aaaagtcagt	cttaagcttg	gatgttttgg	aatgtggatg	720
tttggtgaa	tttatatata	ggngtactc	atcaataccn	cattctttgt	gganttcaag	780
aaccctgtaa	gagtgtgctt	aattccctga	ngtac			815

<210> 531  
 <211> 857  
 <212> DNA  
 <213> Homo Sapiens

<400> 531  
 aaaatgtata agcatatcat tttattttca ttttaagccaa ctatgctgta agctatttag 60  
 acaagatgat tcacatttta tacttaata caaatctcag aacataaagt atattttctg 120  
 tttttcaaat ccattatttta tctgaaatac atttcctgca acaaaacatt attagaagag 180  
 ttaaattatt tatttaaaaa aaatttttta gagacagggc ctcattctgt tgcccagggt 240  
 ggagtgcagt ggcattgatca tacctcactg taacatcaaa ttcctaggct caagtgatct 300  
 tcttgctca gcctcttgaa cagctgggac tacaggcatg gactaccatg ctaggctttt 360  
 tgttttttaa atagagacaa ggtcttatta tcctgcctag gctggtcttg aatgcctagc 420  
 ctcaatatcc ttctgccttg gcctcccaaa atggttggtat tacaggcacg agctaccgta 480  
 tctggccaaa attatttttt aatggttgta gtggagcaaa ttttcctcat tatgtacct 540  
 caggaatta gcacactctt aacggttctt gaatcaacaa agaatgtggt attgatgagt 600  
 acacactata tataaattca gccaaacatc cacatccaaa catccaagct gtaagactga 660  
 cttttaactt aaaattttga aaataaattt aaaaagccct tcaactact ggtaacacac 720  
 ttcttatggg ttacccac aggnctcagg aattccagtt tctgggcttn ccttaaacct 780  
 ttcctgggg tagcccatca atcatctctt tctcaaaaaa aggcntttgc attaacccgg 840  
 gccatttggc ctggcca 857

<210> 532  
 <211> 736  
 <212> DNA  
 <213> Homo Sapiens

<400> 532  
 cctggatgct gtgctgattg aggatgagct ggaggaactc caccgctact gccaggaggt 60  
 gtttggaagg gtctcccggt tccaccggcg gctcacctcc tgcactccgg gcttggaaga 120  
 tgaaggagg gcctctgaga atgaaacaga catggaagac ccagagaaa tccagactga 180  
 ttcttggcgt aaacggggag agagcgagga accgtcatct cctcagtcct tgtgtcatct 240  
 agtggcccca gggcacgagc ggtctggctg cgagaccctc gtcagcgtgg actccatccc 300  
 cctggagtgg gaccacacag ggcagctggg gggctcctcc tctcacgaag aggacgagga 360  
 gggcccatc tacagcgac tgtcagatgt agaatccct gaaaatcctg aggcatact 420  
 taaaatgacc aaaaaactt tgaaagcgtc ttctggtaaa tccatttcgg atggccactc 480  
 gtggcatgtt cccgacagcc ctccctgtcc cgagcatcac tacaagcaaa tggaggtga 540  
 caggaatgtt ccacctgttc cccctgcgtc cagcaccctc tataaacac cctatggaaa 600  
 gctactatta cctccaggca cggatgggtg caaagaaagc ccgagagtc tgaatggcaa 660  
 cccacagcag gaagacnggg gactggcccg gtattacaga gcaacagtc ggtgccttc 720  
 gacagatggg agatga 736

<210> 533  
 <211> 678  
 <212> DNA  
 <213> Homo Sapiens

<400> 533  
 ctggctaatt ttgtttttta atganaaaca tntgagttgt ncatatcaca aacagnttca 60  
 agtttntggn ccaaccccc gccccaccc ccgcccnggc caaacagtta aaacccaaag 120  
 caaagcatca ntttgatgt gaaaaagtnt taaaaaatta acttacaaaa ncatccctat 180  
 caagtccgta gttnggcatt tactttacat tagtcaaaag ctccagctaa aatctaattt 240  
 ttttaaaaaa aaatcgaagt ttacattatt catacanatt gggcattgtt aaaaaatatg 300  
 cncaataaac cacatccatg caatacaatt tntttaaaaa ttttaagcan tntaaaagag 360  
 cagagctagg tntgaacan aacatttttg ngataaccg gcagntcaaa attgccagct 420

gattggagta	aaactgattn	taagcgtatt	aaatatgatn	gatngtttcc	atcagctaag	480
gnggcctatg	agtttctgaa	ccatttntag	gngngaatgt	cctcgcttgc	ttcnataata	540
tatgtgatgg	acaccactgc	tcattgncca	tacctacatt	ataataatgc	tgttttacaa	600
acaaaccaga	attcacaaag	ngcttggctn	ttcaggaaac	tgacatttcc	agagatccct	660
aaactaaatc	aactagtt					678

&lt;210&gt; 534

&lt;211&gt; 789

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 534

ggtggatgag	ggtgctgggg	acagtgcctgc	ggtggccagt	ggtgggtgcc	agaccttggc	60
ccttgccggg	tccctgccc	catcggggca	ccccaaggct	ggacacagtg	agaacggggt	120
tgaggaggac	acagaaggtc	gaacggggcc	caaagaagg	acccctggga	gcccacgga	180
gacccagggc	cccagcccag	caggacctgc	aggggacgag	ccagccgaga	gcccacgga	240
gacccagggc	ccccgcccag	caggacctgc	aggggacgag	ccagccgaga	gcccacgga	300
gacccagggc	ccccgcccag	caggacctgc	aggggacgag	ccagccgaga	gcccacgga	360
gacccagggc	cccagcccgg	caggacctac	aagggatgag	ccagccgaga	gcccacgga	420
gacccagggc	ccccgcccgg	caggacctgc	aggggacgag	ccagccgaga	gcccacgga	480
gacccagggc	ccccgcccgg	caggacctgc	aggggacgag	ccagccgaga	gcccacgga	540
gacccagggc	cccagcccgg	caggacctac	aagggatgag	ccagccaagg	cgggggaggc	600
agcagagttg	caggacgcag	aggtggagtc	ttctgccaag	ttctgggaag	ccnttaagga	660
aaggagttgc	ccgtcggcgt	cttggtccctc	tggtccctgt	tgaagggtct	gggncttccg	720
gacttnttgn	ggcttccctt	aaggtttgg	ttgtgacct	gaccatggan	ccacaatgct	780
gggcttctt						789

&lt;210&gt; 535

&lt;211&gt; 802

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 535

caaagtcaaa	tgaatttatt	cagaaaaggc	cttgcttgg	atcagactaa	gaaaagcagc	60
cctgcccggc	gccccccact	ccanaagggt	caattttacaa	agacaggggc	gcaggggana	120
gctgggtggg	gaagacacag	ccagggccagg	aggcttctgc	aggccttggg	cttccctgag	180
ggcctcgagg	cttctggtgg	ctgctatagt	ggccccacag	gaggccagca	ctgtgggtca	240
tgggtcacgg	gtcacgaagc	anagcctgag	gggagcccgc	agcagctccg	gaggccccag	300
cccctgcagc	agggacagga	ggaccaagac	gccgacgggc	actcctttcc	ttaaggcttc	360
ccanacttgg	cagaagactc	cacctctgcg	tcctgcaact	ctgctgcctc	ccccgccttg	420
gctggctcat	cccttgtagg	tcctgcccgg	ctggggcctg	gggtctccga	tgggctctcg	480
gctggctcgt	cccctgcagg	tcctgcccgg	cgggggcctg	gggtntccga	tgggctctcg	540
gctggctcgt	cccctgcagg	tcctgcccgg	cgggggcctg	gggtctccga	tgggctctcg	600
gctggctcaa	tccttgtag	gtccttgccg	ggctggggcc	tgggggtctt	ccgaatgggc	660
ttctcggtg	gcttgcgtcc	ttgcaagtc	ttgcccggcc	ggggggcctg	ggggtcttcc	720
aatgggcttt	ttgggttggg	ttcgccccc	tgggaaggtc	ctggctgggc	cgggggggcc	780
tgggggtctt	ccnaaagggg	ct				802

&lt;210&gt; 536

&lt;211&gt; 901

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 536

aaaagaatgg	aaaagaaaat	acagagagaa	cgagaaatgg	aaaaggggga	gtttgatgat	60
------------	------------	------------	------------	------------	------------	----

aaagaagcat	ttgtgacatc	tgcataataag	aaaaaactgc	aagagagagc	tgaagaagaa	120
gaaagagaaa	agagggctgc	tgcactggaa	gcatgtttgg	atgtaaccaa	gcagaaagat	180
ctcagtggtat	tttataggca	cctattaaat	caagcagttg	gtgaagagga	agtacctaaa	240
tgcagctttc	gtgaagccag	atctggtata	aaggaagaaa	aatcaagggg	cttctccaat	300
gaagtaagtt	caaaaaacag	aataccacaa	gagaaatgca	ttcttcaaac	tgatgtgaaa	360
gtagaggaaa	accagatgc	agacagtgc	ttcgatgcta	agagcagtg	ggatgatgaa	420
atagaagaaa	ctagagtga	ctgcagaagg	gaaaagggtca	tagagacccc	tgagaatgac	480
ttcaagcacc	acaggagtca	aaaccactct	cggtcaccta	gtgaagaaag	agggcacagt	540
accaggcacc	acacgaaagg	atcacgaacg	tcgagaggac	atgagaaaag	ggaagatcag	600
caccaacaga	agcaatccag	agaccaaaga	gaaccattac	actgaccctg	gantaccgga	660
aagaaaggga	ttctcatagc	acagagaggg	cagtcattag	agattcccat	tggaagagcc	720
ttgaacagga	agataaaccc	anggccaaag	gnccaaggag	gaaagaagtg	acngaagtnt	780
ggnaaaagg	agaaaggatt	gggagaaaata	nttcccaagg	aggaccagga	aggagattgc	840
ccaccaaatn	gatccgaaac	cgacccaatg	agaaaggaga	gaaggaaag	aaaagccaag	900
c						901

&lt;210&gt; 537

&lt;211&gt; 761

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 537

atgtataagc	atatcatttt	attttcat	at	tttcat	aaagccaacta	tgctgtaagc	tatttagaca	60
agatgattca	cattttat	ataataca	at	ttcagaac	ataaagtata	ttttctgt	ttt	120
ttcaaatcca	tattttat	ct	gaaatacatt	tcctgcaaca	aaacattatt	agaagagtta		180
aattattttat	ttaaaaaaa	tttttttagag	acaggggtctc	attctgtgtc	ccaggttgga			240
gtgcagtggtc	atgatcatac	ctcactgtaa	catcaaattc	ctagggtcaa	gtgatcttct			300
tgctcagcc	tnttgaacag	ctgggactac	aggcatggac	tacctgcta	ggctttttgt			360
tttttaaata	gagacaaggt	cttattatcc	tgctagggt	ggctctgaat	gcctagcctc			420
aatatccttc	tgcttggcc	tcccaaatg	ttggtattac	aggcacgagc	taccggatct			480
ggccaaaatt	at	ttttttaa	ggttgtagt	gagcaaat	ttctcattat	gtacctacag		540
ggaattaagc	cactcttaac	ggttcttgaa	tcnncaaaga	atgtggnatt	gatgagttcn			600
cactatata	aaattcagcc	caaacatcca	cattcnaaca	tnccagctgt	aagactgact			660
tttaacttaa	aattttgaaa	natnaaat	aaaaatgccc	tncaaaaacta	ctgggaacac			720
cctcccttta	tggtttanc	ccagcagggt	tccaaggaa	t				761

&lt;210&gt; 538

&lt;211&gt; 869

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 538

cggaacaag	atggcagccc	ccatacctca	agggttctct	tgtttatcga	ggtttttggg	60
ctggtgggtt	cggcagccag	ttctgggtgac	tcagtccgca	gctatagttc	cagtaagaac	120
taaaaaacgt	ttcacacctc	ctatttatca	acctaaattt	aaaacagaaa	aggagtttat	180
gcaacatgcc	cggaaagcag	gattgggttat	tcctccagaa	aatcggacc	gtccatata	240
tctggcctgt	acagctggta	tatttgatgc	ctatgttcc	cctgagggtg	atgcacgcat	300
atcatctctt	tcaaaggagg	gactgataga	gagaactgaa	cgaatgaaga	agactatggc	360
atcacaagt	tcaatccgga	ggataaaaga	ctatgatgcc	aactttaaaa	taaaggactt	420
ccctgaaaaa	gctaaggata	tctttattga	agctcacctt	tgtctaaata	actcagacca	480
tgaccgactt	cataccttgg	taactgaaca	ctgttttcca	gacatgactt	gggacatcaa	540
atataagacc	gtccgctgga	gctttgtgga	atcttttagag	ccctctcatg	ttgttcaagt	600
tcgctgttca	agtatgatga	accagggcaa	cgtgtaccgn	ccagatcacc	gtaccgcatg	660
cacaccggc	agactctggc	catctatgac	cgggtttggc	ccggttgatg	tatgggccag	720
gnagatgtcc	ccaggatgtc	ctggaagtat	gttggantcg	aaaagcagnt	tgccaaancc	780



ctatggaagc tggagaagcn tacccaagac ggtncacctt gggcaccccc ttaagcaggc 840  
catccttttaa aacggggatg atcccttg 869

<210> 539  
<211> 760  
<212> DNA  
<213> Homo Sapiens

<400> 539  
aagggataaa ttatttcttt ggatttatat ttttccataa aatgcaaag ctgattcatc 60  
agtgaagtcag tatatgaaaa agggcctctt aaatgtctta taaacactaa ttattcttcc 120  
ccagtcttca tttccttaaa gtcacatcgc tcacaagtag gtcacatctc cacttctgcc 180  
atctgaaggc tgggccatgc ccagcctgaa ccaggggaaa tgtgcagaac tcaccaaagt 240  
ttttccaaca ccctgacaac atttcatttc aaactctgat ccctgccctg tgattacaaa 300  
gaggatgctg ctgggtgtct ctcacagtc ctgctgtggg aaaaactgat atccaatggt 360  
ctctgaaaca tactgtcttt catctagact cagaagctag acataaaatt taaaaagaa 420  
gagtgtccat ggccatgtta tacctgccac ctgctagggc ccagtcacat gtcattgttg 480  
ctgatgatga gactgctgaa aagacctgag caggatggga gagaacaaag gtatttcttt 540  
ttatagcatg aggggaatgg gagacttcaa agcttncagg cagcctcatc accccaggct 600  
tcaccctaga aagtcatttt tgnatcagg gctaacctga ngcttctggg gcctctcctt 660  
gggcctcttc ataactctct tctgggnttc agcttgaagg gccaggggat tcatnaccgc 720  
gctttaaagg gatggggcct gcttaagggg ggtgccccat 760

<210> 540  
<211> 874  
<212> DNA  
<213> Homo Sapiens

<400> 540  
ggagcactgc ctcaaacatg ggctgaaagt taagaagagt tttattggcc aaaataaatc 60  
attctttggt cctttggagc tgggtggagaa actttgtcca gaagcatcag atatagcgac 120  
tagtgtcaga aatcttccag aattaaagac agctgtggga agaggccgag cgtggcttta 180  
tcttgcactc atgcaaaaaga aactggcaga ttatctgaaa gtgcttatag acaataaaca 240  
tctcttaagc gagttctatg agcctgaggc tttaatgatg gaggaagaag ggatggtgat 300  
tggttggtctg ctggtgggac tcaatgttct cgatgccaat ctctgcttga aaggagaaga 360  
cttggtattct cagggttgag taatagattt ttccctctac cttaaggatg tgcaggatct 420  
tgatggtggc aaggagcatg aaagaattac tgatgtcctt gatcaaaaaa attatgtgga 480  
agaacttaac cggcacttga gctgcacagt tggggatctt caaaccaaga tagatggctt 540  
ggaaaagact aactcaaac ttcaagaaga gctttcagct gcaacagacc gaatttgctc 600  
acttcaagaa gaacagcagc agttaaagag aacnaaatga attaatcga gaaagaagtn 660  
aaaagagtgt agaagatacn aaacaggatc caaagttgag ctggagactt acagccaact 720  
tcgcaaggtc tggatgaaat gtcnntgatg tgtggaagca cttaaagagg agaagaaagt 780  
ccggttgga ctggaaaaaa gaactggagn tccaaatggg aatgaaaacc caaatnggaa 840  
atgccatgaa gttcctggna aaggcccccc ccaa 874

<210> 541  
<211> 729  
<212> DNA  
<213> Homo Sapiens

<400> 541  
gaaaaataaa tgattttatt gcagggccaa tgataggtag tcacaagggc atgaaatggc 60  
agatctcttg tctgaagcag agaaggcaca ctggcagact ccatgtgtgt caaacgctgt 120  
gcatgaatca ggtttttaga aggaaggtag gagaggaaaa ctactcacta gcagaactga 180  
actgctgtaa aataggttaa attctttgaa aagtgaaaaa tgatagtagc aaaatcatga 240

agttgtatct	gaaccagagc	cgtgatgtaa	ccaagtaaga	tggaagtttc	catccagagg	300
agttaattcc	gaacaagtca	cagaaagggtg	agagctgccg	gttccggcac	gctgtcttct	360
ggagtgccag	tgaccgggca	agaaatttga	ttctttcctt	tgattctctt	gggaaagaac	420
acatttccca	agcccttgga	gaccacacag	gtttggcact	gtccgtgagg	ctgtgtctct	480
gaggacggac	gttcaggagg	ccgtggagga	gcagcgtgc	aggagcagg	tgtggcagct	540
gtcgcacact	cgcaccggct	tggggtagga	gggcagggcc	cagctcgttg	ctgggagcag	600
gtgtttgcan	aagatgtggc	ccacagttcc	ggcagtnngt	gctttctccg	gggaaaatgg	660
agaacttctt	ttntcacacn	tggctaccag	tggggtcgnt	ttcggtatct	tttcaagcca	720
ggccgtggg						729

&lt;210&gt; 542

&lt;211&gt; 830

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 542

gggacagcgg	ggacggcacg	gcgcgcgcag	cttctaagtg	ccagatgatg	gaggagcgtg	60
ccaacctgat	gcacatgatg	aaactcagca	tcaagggtgt	gctccagtcg	gctctgagcc	120
tgggccgcag	cctggatgcg	gaccatgccc	ccttgagca	gttcttttga	gtgatggagc	180
actgcctcaa	acatgggctg	aaagttaaga	agagttttat	tggccaaaat	aatcattctt	240
ttggtccttt	ggagctgggtg	gagaaacttt	gtccagaagc	atcagatata	gcgactagt	300
tcagaaatct	tcagaaatta	aagacagctg	tgggaagagg	ccgagcgtgg	ctttatcttg	360
cactcatgca	aaagaaactg	gcagattatc	tgaaagtgtc	tatagacaat	aaacatctct	420
taagcgagtt	ctatgagcct	gaggctttaa	tgatggagga	agaagggatg	gtgattgttg	480
gtctgctgg	gggactcaat	gttctcgatg	ccaatctctg	cttgaaagga	gaagacttgg	540
attctcaggt	tggagtaata	gatttttccc	tctaccttaa	ggatgtgcag	gatcttgatg	600
gtggcaagga	gcatgaaaga	attactgatg	tccttgatca	aaaaaattat	gtggaagaac	660
ttaaccgggc	acttgagctg	caccagttgg	ggatctttca	acccaagata	gatggctttg	720
gaaaagacta	actcaaagct	tcagaagagc	nttnagctgc	accagaccga	attttgctcc	780
tttcaagaaa	nacagcaccn	gttaagaaaa	ccaaatggaa	ttaatttcag		830

&lt;210&gt; 543

&lt;211&gt; 733

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 543

gaaaaataaa	tgattttatt	gcagggccaa	tgataggtag	tcacaagggc	atgaaatggc	60
agatctcttg	tctgaagcag	agaaaggcaca	ctggcagact	ccatgtgtgt	caaacgctgt	120
gcatgaatca	ggttttttaga	aggaaggtag	gagaggaaaa	ctactcacta	gcagaactga	180
actgctgtaa	aataggttaa	attctttgaa	aagtgaaaaa	tgatagtagc	aaaatcatga	240
agttgtatct	gaaccagagc	cgtgatgtaa	ccaagtaaga	tggaagtttc	catccagagg	300
agttaattcc	gaacaagtca	cagaaagggtg	anagctgccg	gttccggcac	gctgtcttct	360
ggagtgccag	tgaccgggca	agaaatttga	ttctttcctt	tgattctctt	gggaaagaac	420
acatttccca	agcccttgga	gaccacacag	gtttggcact	gtccgtgagg	ctgtgtctct	480
gaggacggac	gttcaggagg	cccgtggagg	agcagcgtgc	caggagcagg	gtgtggcagc	540
tgctgcacac	tcgcaccggc	ttggggtagg	anggcagggc	tagctcgttg	ctggancang	600
tgttgcaaaa	naatgtggcc	acagntncgg	cagtgggtgc	ttnttccggg	aaaagggaga	660
acttcttnt	cacacttggc	tacagnggng	gncgctttcg	ncatcttttt	ancccgagcg	720
nnggcccttt	caa					733

&lt;210&gt; 544

&lt;211&gt; 852

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 544

```

gtggagaaat gcgctatcag ctgaataaaa ccaacatgga gaaggatgag gcagaaaagg      60
agcacagaga gttcagagca aaaactaaca gggatcttga aattaaagat caggaaatag      120
agaaattgag aatagaactg gatgaaagca aacaacactt ggaacaggag cagcagaagg      180
cagccctggc cagagaggag tgcctgagac taacagaact gctgggcgaa tctgagcacc      240
aactgcacct caccagatct gaaatagctc aactcagtca agaaaaaagg tatacatatg      300
ataaattggg aaagttacag agaagaaatg aagaattgga ggaacagtgt gtccagcatg      360
ggagagtaca tgagacgatg aagcaaaggc taaggcagct ggataagcac agccaggcca      420
cagcccagca gctggtgcag ctctctcagca agcagaacca gcttctcctg gagaggcaga      480
gcctgtcgga agaggtggac cggctgcgga cccagttacc cagcatgccca caatctgatt      540
gctgacctgg atggaacaga gtgaaataaa tgaattacaa agagatattt acattcatct      600
ggtttagact taatatgccca caacgcacca cgaccttccc aggggtgacac cgcctcagcc      660
tgcagtgggg ctggtcctca tcaacgcggg cgctgtcccc gcacgcagtc gggtggagc      720
tggagtctga ctctagctga gcagactcct ggtgtatgtt ttcagaaatg gcttgaagtt      780
atgtgtttta atctgctcat tcgtatgcta ggtatacat atgattttca ataaatgaac      840
tttttaaaga aa

```

&lt;210&gt; 545

&lt;211&gt; 414

&lt;212&gt; PRT

&lt;213&gt; Homo Sapiens

&lt;400&gt; 545

```

Leu Leu Asp Ala Ser Glu Lys Leu Lys Leu Thr Tyr Glu Glu Lys Cys
 1             5             10             15
Glu Ile Glu Glu Ser Gln Leu Lys Phe Leu Arg Asn Asp Leu Ala Glu
      20             25             30
Tyr Gln Arg Thr Cys Glu Asp Leu Lys Glu Gln Leu Lys His Lys Glu
      35             40             45
Phe Leu Leu Ala Ala Asn Thr Cys Asn Arg Val Gly Gly Leu Cys Leu
      50             55             60
Lys Cys Ala Gln His Glu Ala Val Leu Ser Gln Thr His Thr Asn Val
      65             70             75             80
His Met Gln Thr Ile Glu Arg Leu Val Lys Glu Arg Asp Asp Leu Met
      85             90             95
Ser Ala Leu Val Ser Val Arg Ser Ser Leu Ala Asp Thr Gln Gln Arg
      100            105            110
Glu Ala Ser Ala Tyr Glu Gln Val Lys Gln Val Leu Gln Ile Ser Glu
      115            120            125
Glu Ala Asn Phe Glu Lys Thr Lys Ala Leu Ile Gln Cys Asp Gln Leu
      130            135            140
Arg Lys Glu Leu Glu Arg Gln Ala Glu Arg Leu Glu Lys Glu Leu Ala
      145            150            155            160
Ser Gln Gln Glu Lys Arg Ala Ile Glu Lys Asp Met Met Lys Lys Glu
      165            170            175
Ile Thr Lys Glu Arg Glu Tyr Met Gly Ser Lys Met Leu Ile Leu Ser
      180            185            190
Gln Asn Ile Ala Gln Leu Glu Ala Gln Val Glu Lys Val Thr Lys Glu
      195            200            205
Lys Ile Ser Ala Ile Asn Gln Leu Glu Glu Ile Gln Ser Gln Leu Ala
      210            215            220
Ser Arg Glu Met Asp Val Thr Lys Val Cys Gly Glu Met Arg Tyr Gln
      225            230            235            240
Leu Asn Lys Thr Asn Met Glu Lys Asp Glu Ala Glu Lys Glu His Arg
      245            250            255

```

Glu Phe Arg Ala Lys Thr Asn Arg Asp Leu Glu Ile Lys Asp Gln Glu  
                   260                                  265                                  270  
 Ile Glu Lys Leu Arg Ile Glu Leu Asp Glu Ser Lys Gln His Leu Glu  
                   275                                  280                                  285  
 Gln Glu Gln Gln Lys Ala Ala Leu Ala Arg Glu Glu Cys Leu Arg Leu  
                   290                                  295                                  300  
 Thr Glu Leu Leu Gly Glu Ser Glu His Gln Leu His Leu Thr Arg Ser  
 305                                  310                                  315                                  320  
 Glu Ile Ala Gln Leu Ser Gln Glu Lys Arg Tyr Thr Tyr Asp Lys Leu  
                                   325                                  330                                  335  
 Gly Lys Leu Gln Arg Arg Asn Glu Glu Leu Glu Glu Gln Cys Val Gln  
                   340                                  345                                  350  
 His Gly Arg Val His Glu Thr Met Lys Gln Arg Leu Arg Gln Leu Asp  
                   355                                  360                                  365  
 Lys His Ser Gln Ala Thr Ala Gln Gln Leu Val Gln Leu Leu Ser Lys  
                   370                                  375                                  380  
 Gln Asn Gln Leu Leu Leu Glu Arg Gln Ser Leu Ser Glu Glu Val Asp  
 385                                  390                                  395                                  400  
 Arg Leu Arg Thr Gln Leu Pro Ser Met Pro Gln Ser Asp Cys  
                                   405                                  410

<210> 546  
 <211> 2885  
 <212> DNA  
 <213> Homo Sapiens

<400> 546  
 ggaattcctc ttgtcgaagt caaaggagcc cacaccaggc ggcctcaacc attccctccc 60  
 acagcaccac aaatgctggg gagcccacca tgcttctttg gaccagagtt cccctcccac 120  
 gagcggcccc cctgggacgc ctccctccta caaactgcct ttgcctgggc cctacgacag 180  
 tcgagacgac ttccccctcc gcaaaacagc ctctgaaccc aacttgaaag tgcgttcaag 240  
 gctaaaacag aaggtggctg agcggagaag cagtccctc ctgcgtcgca aggatgggac 300  
 tgttattagc acctttaaga agagagctgt tgagatcaca ggtgccgggc ctggggcgctc 360  
 gtccgtgtgt aacagcgac ccggctccgg cccagctct cccaacagct cccacagcac 420  
 catcgctgag aatggcttta ctggctcagt cccaacatc cccactgaga tgctccctca 480  
 gcaccgagcc ctccctctgg acagctcccc caaccagttc agcctctaca cgtctccttc 540  
 tctgcccac atctccctag ggctgcagc cacggtcact gtcaccaact cacacctcac 600  
 tgctccccc aagctgtcga cacagcagga ggcgagagg caggccctcc agtccctgcy 660  
 gcaggggtgc acgctgaccg gcaagttcat gacacatcc tctattcctg gctgcctgct 720  
 gggcgtggca ctggaggggc acgggagccc ccacgggcat gcctccctgc tgcagcatgt 780  
 gctgttgctg gagcaggccc ggcagcagag caccctcatt gctgtgccac tccacgggca 840  
 gtccccacta gtgacgggtg aacgtgtggc caccagcatg cggacggtag gcaagctccc 900  
 gcggcatcgg cccctgagcc gcaactcagtc ctcaccgctg ccgcagagtc ccagggccct 960  
 gcagcagctg gtcattgcaac aacagcacca gcagttcctg gagaagcaga agcagcagca 1020  
 gctacagctg ggcaagatcc tcaccaagac aggggagctg cccaggcagc ccaccacca 1080  
 ccctgaggag acagaggagg agctgacgga gcagcaggag gtcttgctgg gggagggagc 1140  
 cctgaccatg ccccgaggag gctccacaga gactgagagc acacaggaag acctggagga 1200  
 ggaggacgag gaagaggatg gggaggagga ggaggattgc atccaggtta aggacgagga 1260  
 gggcgagagt ggtgctgagg aggggcccga cttggaggag cctggtgctg gatacaaaaa 1320  
 actgttctca gatgcccac cgctgcaacc ttgacaggtg taccaagcgc ccctcagcct 1380  
 ggccactgtg ccccaaccaag ccctgggccc taccatcc tcccctgctg cccctggggg 1440  
 catgaagaac ccccaagacc aaccgctcaa gcacctctc accacaagtg tggctctacga 1500  
 cacgttcatg ctaaagcacc agtgcattgt cgggaacaca cacgtgcacc ctgagcatgc 1560  
 tgcccgatc cagagcatct ggtcccggt gcaggagaca ggcctgctta gcaagtgcga 1620  
 gcggatccga ggtcgaaaag ccacgctaga tgagatccag acagtgcact ctgaatacca 1680

```

caccctgctc tatgggacca gtccctca cgggcagaag ctagacagca agaagttgct 1740
cggccccatc agccagaaga tgtatgctgt gctgccttgt gggggcatcg ggggtggacag 1800
tgacaccgtg tggaatgaga tgcaactctc cagtgtctgt cgcattggcag tgggtctgcct 1860
gctggagctg gccttcaagg tggtgtcagg agagctcaag aatggatttg ccatcatccg 1920
gccccagga caccacgccc aggaatccac agccatggga ttctgtctct tcaactctgt 1980
agccatcacc gcaaaactcc tacagcagaa gttgaacgtg ggcaaggtcc tcatcgtgga 2040
ctgggacatt caccatggca atggcaccca gcaggcgttc tacaatgacc cctctgtgct 2100
ctacatctct ctgcatcgct atgacaacgg gaacttcttt ccaggctctg gggctcctga 2160
agaggttggg ggaggaccag gcgtggggta caatgtgaac gtggcatgga caggaggtgt 2220
ggaccccccc attggagacg tggagtacct tacagccttc aggacagtgg tgatgcccac 2280
tgcccacgag ttctcacctg atgtggctct agtctccgcc ggggtttgatg ctgttgaagg 2340
acatctgtct cctctgggtg gctactctgt caccgccaga tgttttggcc acttgaccag 2400
gcagctgatg accctggcag ggggcccggg ggtgctggcc ctggaggagg gccatgactt 2460
gaccgccatc tgtgatgcct ctgaagcttg tgtctcggct ctgctcagtg taaagctgca 2520
gcccttggat gaggcagtct tgcagcaaaa gcccaacatc aacgcagtgg ccacgctaga 2580
gaaagtcacg gagatccaga gcaaacactg gagctgtgtg cagaagttcg ccgctggtct 2640
gggcccgtcc ctgcgagggg cccaagcagg tgagaccgaa gaagccgaaa tgtgaacgcc 2700
atggccttgc tgttggtggg ggccgaacag gcccaagctg cggcagcccg ggaacacagc 2760
ccaggcccg cagaggagcc catggagcag gagcctgccc tgtgacgccc cggcccccat 2820
ccctttgggc ttcaccattg tgattttgtt tattttttct attaaaaaca aaaagttaaa 2880
aatatt

```

&lt;210&gt; 547

&lt;211&gt; 897

&lt;212&gt; PRT

&lt;213&gt; Homo Sapiens

&lt;400&gt; 547

```

Glu Phe Leu Leu Ser Lys Ser Lys Glu Pro Thr Pro Gly Gly Leu Asn
 1          5          10          15
His Ser Leu Pro Gln His Pro Lys Cys Trp Gly Ala His His Ala Ser
 20          25          30
Leu Asp Gln Ser Ser Pro Pro Gln Ser Gly Pro Pro Gly Thr Pro Pro
 35          40          45
Ser Tyr Lys Leu Pro Leu Pro Gly Pro Tyr Asp Ser Arg Asp Asp Phe
 50          55          60
Pro Leu Arg Lys Thr Ala Ser Glu Pro Asn Leu Lys Val Arg Ser Arg
 65          70          75          80
Leu Lys Gln Lys Val Ala Glu Arg Arg Ser Ser Pro Leu Leu Arg Arg
 85          90          95
Lys Asp Gly Thr Val Ile Ser Thr Phe Lys Lys Arg Ala Val Glu Ile
100          105          110
Thr Gly Ala Gly Pro Gly Ala Ser Ser Val Cys Asn Ser Ala Pro Gly
115          120          125
Ser Gly Pro Ser Ser Pro Asn Ser Ser His Ser Thr Ile Ala Glu Asn
130          135          140
Gly Phe Thr Gly Ser Val Pro Asn Ile Pro Thr Glu Met Leu Pro Gln
145          150          155          160
His Arg Ala Leu Pro Leu Asp Ser Ser Pro Asn Gln Phe Ser Leu Tyr
165          170          175
Thr Ser Pro Ser Leu Pro Asn Ile Ser Leu Gly Leu Gln Ala Thr Val
180          185          190
Thr Val Thr Asn Ser His Leu Thr Ala Ser Pro Lys Leu Ser Thr Gln
195          200          205
Gln Glu Ala Glu Arg Gln Ala Leu Gln Ser Leu Arg Gln Gly Gly Thr

```

210	215	220
Leu Thr Gly Lys Phe Met Ser Thr Ser Ser Ile Pro Gly Cys Leu Leu		
225	230	235
Gly Val Ala Leu Glu Gly Asp Gly Ser Pro His Gly His Ala Ser Leu		
	245	250
Leu Gln His Val Leu Leu Leu Glu Gln Ala Arg Gln Gln Ser Thr Leu		
	260	265
Ile Ala Val Pro Leu His Gly Gln Ser Pro Leu Val Thr Gly Glu Arg		
	275	280
Val Ala Thr Ser Met Arg Thr Val Gly Lys Leu Pro Arg His Arg Pro		
	290	295
Leu Ser Arg Thr Gln Ser Ser Pro Leu Pro Gln Ser Pro Gln Ala Leu		
305	310	315
Gln Gln Leu Val Met Gln Gln Gln His Gln Gln Phe Leu Glu Lys Gln		
	325	330
Lys Gln Gln Gln Leu Gln Leu Gly Lys Ile Leu Thr Lys Thr Gly Glu		
	340	345
Leu Pro Arg Gln Pro Thr Thr His Pro Glu Glu Thr Glu Glu Glu Leu		
	355	360
Thr Glu Gln Gln Glu Val Leu Leu Gly Glu Gly Ala Leu Thr Met Pro		
	370	375
Arg Glu Gly Ser Thr Glu Ser Glu Ser Thr Gln Glu Asp Leu Glu Glu		
385	390	395
Glu Asp Glu Glu Glu Asp Gly Glu Glu Glu Glu Asp Cys Ile Gln Val		
	405	410
Lys Asp Glu Glu Gly Glu Ser Gly Ala Glu Glu Gly Pro Asp Leu Glu		
	420	425
Glu Pro Gly Ala Gly Tyr Lys Lys Leu Phe Ser Asp Ala Gln Pro Leu		
	435	440
Gln Pro Leu Gln Val Tyr Gln Ala Pro Leu Ser Leu Ala Thr Val Pro		
	450	455
His Gln Ala Leu Gly Arg Thr Gln Ser Ser Pro Ala Ala Pro Gly Gly		
465	470	475
Met Lys Asn Pro Pro Asp Gln Pro Val Lys His Leu Phe Thr Thr Ser		
	485	490
Val Val Tyr Asp Thr Phe Met Leu Lys His Gln Cys Met Cys Gly Asn		
	500	505
Thr His Val His Pro Glu His Ala Gly Arg Ile Gln Ser Ile Trp Ser		
	515	520
Arg Leu Gln Glu Thr Gly Leu Leu Ser Lys Cys Glu Arg Ile Arg Gly		
	530	535
Arg Lys Ala Thr Leu Asp Glu Ile Gln Thr Val His Ser Glu Tyr His		
545	550	555
Thr Leu Leu Tyr Gly Thr Ser Pro Leu Asn Arg Gln Lys Leu Asp Ser		
	565	570
Lys Lys Leu Leu Gly Pro Ile Ser Gln Lys Met Tyr Ala Val Leu Pro		
	580	585
Cys Gly Gly Ile Gly Val Asp Ser Asp Thr Val Trp Asn Glu Met His		
	595	600
Ser Ser Ser Ala Val Arg Met Ala Val Gly Cys Leu Leu Glu Leu Ala		
	610	615
Phe Lys Val Ala Ala Gly Glu Leu Lys Asn Gly Phe Ala Ile Ile Arg		
625	630	635
Pro Pro Gly His His Ala Glu Glu Ser Thr Ala Met Gly Phe Cys Phe		
	645	650
		655

Phe Asn Ser Val Ala Ile Thr Ala Lys Leu Leu Gln Gln Lys Leu Asn  
 660 665 670  
 Val Gly Lys Val Leu Ile Val Asp Trp Asp Ile His His Gly Asn Gly  
 675 680 685  
 Thr Gln Gln Ala Phe Tyr Asn Asp Pro Ser Val Leu Tyr Ile Ser Leu  
 690 695 700  
 His Arg Tyr Asp Asn Gly Asn Phe Phe Pro Gly Ser Gly Ala Pro Glu  
 705 710 715 720  
 Glu Val Gly Gly Gly Pro Gly Val Gly Tyr Asn Val Asn Val Ala Trp  
 725 730 735  
 Thr Gly Gly Val Asp Pro Pro Ile Gly Asp Val Glu Tyr Leu Thr Ala  
 740 745 750  
 Phe Arg Thr Val Val Met Pro Ile Ala His Glu Phe Ser Pro Asp Val  
 755 760 765  
 Val Leu Val Ser Ala Gly Phe Asp Ala Val Glu Gly His Leu Ser Pro  
 770 775 780  
 Leu Gly Gly Tyr Ser Val Thr Ala Arg Cys Phe Gly His Leu Thr Arg  
 785 790 795 800  
 Gln Leu Met Thr Leu Ala Gly Gly Arg Val Val Leu Ala Leu Glu Gly  
 805 810 815  
 Gly His Asp Leu Thr Ala Ile Cys Asp Ala Ser Glu Ala Cys Val Ser  
 820 825 830  
 Ala Leu Leu Ser Val Lys Leu Gln Pro Leu Asp Glu Ala Val Leu Gln  
 835 840 845  
 Gln Lys Pro Asn Ile Asn Ala Val Ala Thr Leu Glu Lys Val Ile Glu  
 850 855 860  
 Ile Gln Ser Lys His Trp Ser Cys Val Gln Lys Phe Ala Ala Gly Leu  
 865 870 875 880  
 Gly Arg Ser Leu Arg Gly Ala Gln Ala Gly Glu Thr Glu Glu Ala Glu  
 885 890 895  
 Met

<210> 548  
 <211> 1298  
 <212> DNA  
 <213> Homo Sapiens

<400> 548  
 ggctgctgaa atgactgcga accggcttgc agagagcctt ctggctttga gccancagga 60  
 agaactagcg gatttgccaa aagactacct cttgagttag agtgaagatg agggggacaa 120  
 tgatggagag agaaagcatc naaagcttct ggaagcaatc agttcccttg atggaaagaa 180  
 taggcggaaa ttggctgana ggtctgaggc tagtctgaag gtgtcagagt tcaatgtcag 240  
 ttctgaagga tcaggagaaa agctgggtcct tgcagatctg cttgagcctg ttaaaacttc 300  
 atcttctttg gccactgtga aaaagcaact gtagtagatc anatcaaaga anacagtggg 360  
 gttacctctg aacaaagaag agattgaacg gatccacaga gaatagcatt caataaaacg 420  
 cacaagtctt ctccaaatgg gaccctgtcg tcctgaagaa ccggcaggca gagcagctgg 480  
 tttttccctt ggagaaagag gagccagcca ttgctcccat tgaacatgtg ctcaagtggct 540  
 ggaaggcaag aactcccctg gagcaggaaa ttttcaacct cctccataag aacaagcagc 600  
 cagtgcacga ccctttactg acccctgttg aaaaggcctc tctccgagcc atgagcctag 660  
 aagaggcaaa gatgcgacga gcagagcttc agagggtcgc ggctctgcag tctactatg 720  
 angccaaggc tcgaagagag aagaaaatcn aaagttaaaa gtatcacaaa gtcgtgaaga 780  
 aaggaaaggc caagaaagcc ctaaaagagt ttgagcagct gcggaagggt aatccagctg 840  
 ccgactaga agaacgaaga aaagaggaaa gaaggaggag gagaaagaag aagaacaagg 900  
 agaagaagaa agaagaaggg agaaggagaa gaaaagaagg agaagaggaa aaggaagaag 960

```

gagaaagaaa aggagaagga aaaggaaaaag aaggagaaga aagaagaact aagaagaagg 1020
agaggaagaa taagaaggaa agaagaaaga aaaaagtnaa agaagaaga agaaggaaga 1080
aggaaagaag aggaagaact nagaagaaga aagaggagga aagaagaag aagaataagg 1140
aacnagaaag aaggagaaga aagaataaga agaggagaa gaaaaagaag aaaagaagaa 1200
ggaaagaagg agaaaaagga agaaaaaagg aagaagaag tagaaagcgg aagaagaaa 1260
agaaagtata agaaggaaga agaagaaaga aggaaaaa 1298

```

<210> 549  
 <211> 236  
 <212> PRT  
 <213> Homo Sapiens

```

<400> 549
Ala Ala Glu Met Thr Ala Asn Arg Leu Ala Glu Ser Leu Leu Ala Leu
 1             5             10             15
Ser Gln Glu Glu Leu Ala Asp Leu Pro Lys Asp Tyr Leu Leu Ser Glu
             20             25             30
Ser Glu Asp Glu Gly Asp Asn Asp Gly Glu Arg Lys His Lys Leu Leu
             35             40             45
Glu Ala Ile Ser Ser Leu Asp Gly Lys Asn Arg Arg Lys Leu Ala Arg
             50             55             60
Ser Glu Ala Ser Leu Lys Val Ser Glu Phe Asn Val Ser Ser Glu Gly
             65             70             75             80
Ser Gly Glu Lys Leu Val Leu Ala Asp Leu Leu Glu Pro Val Lys Thr
             85             90             95
Ser Ser Ser Leu Ala Thr Val Lys Lys Gln Leu Ser Arg Val Ser Lys
             100            105            110
Thr Val Glu Leu Pro Leu Asn Lys Glu Glu Ile Glu Arg Ile His Arg
             115            120            125
Glu Ile Ala Phe Asn Lys Thr His Lys Ser Ser Pro Asn Gly Thr Leu
             130            135            140
Ser Ser Val Leu Lys Asn Arg Gln Ala Glu Gln Leu Val Phe Pro Leu
             145            150            155            160
Glu Lys Glu Glu Pro Ala Ile Ala Pro Ile Glu His Val Leu Ser Gly
             165            170            175
Trp Lys Ala Arg Thr Pro Leu Glu Gln Glu Ile Phe Asn Leu Leu His
             180            185            190
Lys Asn Lys Gln Pro Val Thr Asp Pro Leu Leu Thr Pro Val Glu Lys
             195            200            205
Ala Ser Leu Arg Ala Met Ser Leu Glu Glu Ala Lys Met Arg Arg Ala
             210            215            220
Glu Leu Gln Arg Ala Arg Ala Leu Gln Ser Tyr Tyr
             225            230            235

```

<210> 550  
 <211> 2236  
 <212> DNA  
 <213> Homo Sapiens

```

<400> 550
cctggccccg tgcggtgc ggctctttcc agctcctggc agccgggcac ccgaaggaac 60
gggtcgtgca acgacgcagc tggacctggc ccagccatgg accgaaaagt ggccccgagaa 120
ttccggcata aggtggattt tctgattgaa aatgatgcag agaaggacta tctctatgat 180
gtgctgcgaa tgtaccacca gaccatggac gtggccgtgc tcgtgggaga cctgaagctg 240
gtcatcaatg aaccagccg tctgcctctg tttgatgcca ttcggccgct gatccactg 300

```



```

aagcaccagg tggaatatga tcagctgacc ccccggcgct ccaggaagct gaaggaggtg 360
cgtctggacc gtctgcaccc cgaaggcctc ggccctgagtg tgcgtggtgg cctggagttt 420
ggctgtgggc tcttcatctc ccacctcate aaaggcggtc aggcagacag cgtcgggctc 480
caggtagggg acgagatcgt ccggatcaat ggatattcca tctcctcctg taccatgag 540
gaggtcatca acctcattcg aaccaagaaa actgtgtcca tcaaagttag acacatcggc 600
ctgatccccg tgaagaagctc tctgatgag cccctcactt ggcagtatgt ggatcagttt 660
gtgtcggaat ctggggggcg gcgaggcagc ctgggctccc ctggaaatcg ggaaaacaag 720
gagaagaagg tcttcatcag cctggtaggc tcccagggcc ttggctgcag catttccagc 780
ggccccatcc agaagcctgg catctttatc agccatgtga aacctggctc cctgtctgct 840
gaggtgggat tggagatagg ggaccagatt gtcgaagtca atggcgtcga cttctctaac 900
ctggatcaca aggaggctgt aaatgtgctg aaaaatagcc gcagcctgac catctccatt 960
gtagctgcag ctggccggga gctgttcctg acagaccggg agcggctggc agaggcgagg 1020
cagcgtgagc tgcagcggca ggagcttctc atgcagaagc ggctggcgat ggagtccaac 1080
aagatcctcc agggagcagca ggagatggag cggcaaaggga gaaaagaaat tgcccagaag 1140
gcagcagagg aaaatgagag ataccggaag gagatggaac agattgtaga ggaggaagag 1200
aagtttaaga agcaatggga agaagactgg ggctcaaagg aacagctact cttgcctaaa 1260
accatcactg ctgaggtaca ccagtagccc ctctgcaagc caaagtatga tcaggagagt 1320
gaacctgagc tcgagcccg c agatgacctg gatggaggca cggaggagca gggagagcag 1380
gatttcggga aatatgagga aggcctttgac ccctactcta tgttcacccc agagcagatc 1440
atgggggaagg atgtccggct cctacgcctc aagaaggagg gatccttaga cctggccctg 1500
gaaggcgggtg tggactcccc cattgggaag gtggtcgttt ctgctgtgta tgagcgggga 1560
gctgtgagc ggcatggtgg cattgtgaaa ggggacgaga tcatggcaat caacggcaag 1620
attgtgacag actacacctt ggctgaggct gacgctggcc tgcagaaggc ctggaatcag 1680
ggcggggact ggatcgacct tgtggttgcc gtctgcccc caaaggagta tgacgatgag 1740
ctgaccttct tctgaagtc caaaagggga aaccaaattc acgcgttagg aaacagttag 1800
ctccggcccc acctcgtgaa caaaaagcct cggaccagcc ttgagagagg ccacatgaca 1860
cacaccagat ggcacacctg ggacctgaat ctatcaccca ggaatctcaa actccctttg 1920
gccctgaacc agggccagat aaggaacagc tcgggccact tttttgaagg ccaatgtgga 1980
ggaaaggagg cagccagccg tttgggagaa gatctcaagg atccagactc tcattccttt 2040
cctctggccc agtgaatttg gtctctccca gctttggggg actccttctc tgaaccttaa 2100
taagacccca ctggagtctc tctctctcca tccctctcct ctgccctctg ctctaattgc 2160
tgccaggatt gtcactccaa accttactct gagctcatta ataaaataaa cagattttatt 2220
ttccagctta aaaaaa

```

&lt;210&gt; 551

&lt;211&gt; 652

&lt;212&gt; PRT

&lt;213&gt; Homo Sapiens

&lt;400&gt; 551

```

Met Asp Arg Lys Val Ala Arg Glu Phe Arg His Lys Val Asp Phe Leu
 1             5             10            15
Ile Glu Asn Asp Ala Glu Lys Asp Tyr Leu Tyr Asp Val Leu Arg Met
          20             25             30
Tyr His Gln Thr Met Asp Val Ala Val Leu Val Gly Asp Leu Lys Leu
          35             40             45
Val Ile Asn Glu Pro Ser Arg Leu Pro Leu Phe Asp Ala Ile Arg Pro
          50             55             60
Leu Ile Pro Leu Lys His Gln Val Glu Tyr Asp Gln Leu Thr Pro Arg
          65             70             75             80
Arg Ser Arg Lys Leu Lys Glu Val Arg Leu Asp Arg Leu His Pro Glu
          85             90             95
Gly Leu Gly Leu Ser Val Arg Gly Gly Leu Glu Phe Gly Cys Gly Leu
          100            105            110
Phe Ile Ser His Leu Ile Lys Gly Gly Gln Ala Asp Ser Val Gly Leu

```

```

      115      120      125
Gln Val Gly Asp Glu Ile Val Arg Ile Asn Gly Tyr Ser Ile Ser Ser
      130      135      140
Cys Thr His Glu Glu Val Ile Asn Leu Ile Arg Thr Lys Lys Thr Val
145      150      155      160
Ser Ile Lys Val Arg His Ile Gly Leu Ile Pro Val Lys Ser Ser Pro
      165      170      175
Asp Glu Pro Leu Thr Trp Gln Tyr Val Asp Gln Phe Val Ser Glu Ser
      180      185      190
Gly Gly Val Arg Gly Ser Leu Gly Ser Pro Gly Asn Arg Glu Asn Lys
      195      200      205
Glu Lys Lys Val Phe Ile Ser Leu Val Gly Ser Arg Gly Leu Gly Cys
      210      215      220
Ser Ile Ser Ser Gly Pro Ile Gln Lys Pro Gly Ile Phe Ile Ser His
225      230      235      240
Val Lys Pro Gly Ser Leu Ser Ala Glu Val Gly Leu Glu Ile Gly Asp
      245      250      255
Gln Ile Val Glu Val Asn Gly Val Asp Phe Ser Asn Leu Asp His Lys
      260      265      270
Glu Ala Val Asn Val Leu Lys Asn Ser Arg Ser Leu Thr Ile Ser Ile
      275      280      285
Val Ala Ala Ala Gly Arg Glu Leu Phe Met Thr Asp Arg Glu Arg Leu
      290      295      300
Ala Glu Ala Arg Gln Arg Glu Leu Gln Arg Gln Glu Leu Leu Met Gln
305      310      315      320
Lys Arg Leu Ala Met Glu Ser Asn Lys Ile Leu Gln Glu Gln Gln Glu
      325      330      335
Met Glu Arg Gln Arg Arg Lys Glu Ile Ala Gln Lys Ala Ala Glu Glu
      340      345      350
Asn Glu Arg Tyr Arg Lys Glu Met Glu Gln Ile Val Glu Glu Glu Glu
      355      360      365
Lys Phe Lys Lys Gln Trp Glu Glu Asp Trp Gly Ser Lys Glu Gln Leu
      370      375      380
Leu Leu Pro Lys Thr Ile Thr Ala Glu Val His Pro Val Pro Leu Arg
385      390      395      400
Lys Pro Lys Tyr Asp Gln Gly Val Glu Pro Glu Leu Glu Pro Ala Asp
      405      410      415
Asp Leu Asp Gly Gly Thr Glu Glu Gln Gly Glu Gln Asp Phe Arg Lys
      420      425      430
Tyr Glu Glu Gly Phe Asp Pro Tyr Ser Met Phe Thr Pro Glu Gln Ile
      435      440      445
Met Gly Lys Asp Val Arg Leu Leu Arg Ile Lys Lys Glu Gly Ser Leu
      450      455      460
Asp Leu Ala Leu Glu Gly Gly Val Asp Ser Pro Ile Gly Lys Val Val
465      470      475      480
Val Ser Ala Val Tyr Glu Arg Gly Ala Ala Glu Arg His Gly Gly Ile
      485      490      495
Val Lys Gly Asp Glu Ile Met Ala Ile Asn Gly Lys Ile Val Thr Asp
      500      505      510
Tyr Thr Leu Ala Glu Ala Asp Ala Ala Leu Gln Lys Ala Trp Asn Gln
      515      520      525
Gly Gly Asp Trp Ile Asp Leu Val Val Ala Val Cys Pro Pro Lys Glu
      530      535      540
Tyr Asp Asp Glu Leu Thr Phe Leu Leu Lys Ser Lys Arg Gly Asn Gln
545      550      555      560

```

```
<210> 552
<211> 2162
<212> DNA
<213> Homo Sapiens
```

ctcgtgcccg	tcgcggtgcg	ggctcttttc	agctcctggc	agccgggcac	ccgaaggaaac	60
gggtcgtgca	acgacgcagc	tggacctggc	ccagccatgg	accgaaaagt	ggccccgagaa	120
ttccggcata	aggtggattt	tctgattgaa	aatgatgcag	agaaggacta	tctctatgat	180
gtgctgcgaa	tgtaccacca	gaccatggac	gtggccgtgc	tcgtggggaga	cctgaagctg	240
gtcatcaatg	aacccagccg	tctgectctg	tttgatgcc	tcggccgct	gatcccaactg	300
aagcaccagg	tggaaatata	tcagctgacc	ccccggcgct	ccaggaagct	gaaggaggtg	360
cgtctggacc	gtctgcaccc	cgaaggcctc	ggcctgagtg	tgctgggtgg	cctggagttt	420
ggctgtgggc	tcttcacctc	ccacctatc	aaaggcggtc	aggcacagag	cgtccggctc	480
caggtagggg	acgagatcgt	ccggatcaat	ggatatccca	tctccctcctg	taccatgag	540
gaggtcatca	acctcattcg	aaccaagaaa	actgtgtcca	tcaaagtgag	acacatcggc	600
ctgatccccg	tgaaaagctc	tctgatgag	ccctcactt	ggcagtatgt	ggatcagttt	660
gtgtcggaat	ctggggcgct	gcgaggcagc	ctgggctccc	ctggaaatcg	ggaaaacaag	720
gagaagaagg	tcttcacacg	cctggtaggc	tcccagggcc	ttggctgcag	catttcacgc	780
ggccccatcc	agaagcctgg	catctttatc	agccatgtga	aaactggctc	cctgtctgct	840
gaggtgggat	tggagatagg	ggaccagatt	gtcgaagtca	atggcgctga	cttctctaac	900
ctggtacaca	aggagcctgt	aaatgtgctg	aaaaatagcc	cgacctcgac	catctccatt	960
gtagctgcag	ctggccggga	gctgttcacg	acagaccggg	agcggctggc	agaggcgccg	1020
cagcgtgagc	tgcagcggca	ggagctttct	atgcagaagc	ggctggcgat	ggagtccaac	1080
aagatcctcc	aggagcagca	ggagatggag	cggcaaagga	gaaaagaaat	tgcccagaag	1140
gcagcagagg	aaaatgagag	ataccggaag	gagatggaac	agattgtaga	ggaggaagag	1200
aagttaaaga	agcaatggga	agaagactgg	ggctcaaagg	aacagctact	cttgccataa	1260
accatcactg	ctgaggtaca	cccagtaccc	cttcgcaagc	caaagtgatt	tccggaata	1320
tgaggaaggc	tttgacccct	actctatggt	cacccacag	cagatcatgg	ggaaggatgt	1380
cggctccta	cgcataaga	aggagggatc	cttagacctg	gccctggaag	gcggtgtgga	1440
ctccccatt	gggaaggtgg	tcgtttctgc	tgtgtatgag	cggggagctg	ctgagcgcca	1500
tggtggcatt	gtgaaagggg	acgagatcat	ggcaatcaac	cgcaagattg	tgacagacta	1560
caccctggct	gaggctgacg	ctgccctgca	gaaggcctgg	aatcagggcg	gggactggat	1620
cgacctgtg	gttgccgtct	gcccccaaa	ggagtatgac	gatgagctga	ccttcttgct	1680
gaagtccaaa	aggggaaacc	aaattcacgc	gttaggaaac	agtgagctcc	ggccccacct	1740
cgtgaacaca	aagcctcgga	ccagccttga	gagaggccac	atgacacaca	ccagatggca	1800
tccttgggac	ctgaatctat	caccagga	tctcaaactc	cctttggccc	tgaaccaggg	1860
ccagataagg	aacagctcgg	gccacttttt	tgaaggccaa	tgtggaggaa	agggagcagc	1920
cagccgtttg	ggagaagatc	tcaaggatcc	agactctcat	tcctttctct	tggcccagtg	1980
aaattggctc	ctccagcctt	tgggggactc	cttcttgtaa	ccctaataag	acccactgg	2040
agtctctctc	tctcaatccc	tctcctctgc	ctctctgctc	aatgtctgcc	aggattgtca	2100
ctccaaacct	tactctgagc	tcattaataa	aataaacaga	tttatttttc	agcttaaaaa	2160

aa

2162

<210> 553  
 <211> 403  
 <212> PRT  
 <213> Homo Sapiens

<400> 553

```

Met Asp Arg Lys Val Ala Arg Glu Phe Arg His Lys Val Asp Phe Leu
 1          5          10          15
Ile Glu Asn Asp Ala Glu Lys Asp Tyr Leu Tyr Asp Val Leu Arg Met
 20          25          30
Tyr His Gln Thr Met Asp Val Ala Val Leu Val Gly Asp Leu Lys Leu
 35          40          45
Val Ile Asn Glu Pro Ser Arg Leu Pro Leu Phe Asp Ala Ile Arg Pro
 50          55          60
Leu Ile Pro Leu Lys His Gln Val Glu Tyr Asp Gln Leu Thr Pro Arg
 65          70          75          80
Arg Ser Arg Lys Leu Lys Glu Val Arg Leu Asp Arg Leu His Pro Glu
 85          90          95
Gly Leu Gly Leu Ser Val Arg Gly Gly Leu Glu Phe Gly Cys Gly Leu
100          105          110
Phe Ile Ser His Leu Ile Lys Gly Gly Gln Ala Asp Ser Val Gly Leu
115          120          125
Gln Val Gly Asp Glu Ile Val Arg Ile Asn Gly Tyr Ser Ile Ser Ser
130          135          140
Cys Thr His Glu Glu Val Ile Asn Leu Ile Arg Thr Lys Lys Thr Val
145          150          155          160
Ser Ile Lys Val Arg His Ile Gly Leu Ile Pro Val Lys Ser Ser Pro
165          170          175
Asp Glu Pro Leu Thr Trp Gln Tyr Val Asp Gln Phe Val Ser Glu Ser
180          185          190
Gly Gly Val Arg Gly Ser Leu Gly Ser Pro Gly Asn Arg Glu Asn Lys
195          200          205
Glu Lys Lys Val Phe Ile Ser Leu Val Gly Ser Arg Gly Leu Gly Cys
210          215          220
Ser Ile Ser Ser Gly Pro Ile Gln Lys Pro Gly Ile Phe Ile Ser His
225          230          235          240
Val Lys Pro Gly Ser Leu Ser Ala Glu Val Gly Leu Glu Ile Gly Asp
245          250          255
Gln Ile Val Glu Val Asn Gly Val Asp Phe Ser Asn Leu Asp His Lys
260          265          270
Glu Ala Val Asn Val Leu Lys Asn Ser Arg Ser Leu Thr Ile Ser Ile
275          280          285
Val Ala Ala Ala Gly Arg Glu Leu Phe Met Thr Asp Arg Glu Arg Leu
290          295          300
Ala Glu Ala Arg Gln Arg Glu Leu Gln Arg Gln Glu Leu Leu Met Gln
305          310          315          320
Lys Arg Leu Ala Met Glu Ser Asn Lys Ile Leu Gln Glu Gln Gln Glu
325          330          335
Met Glu Arg Gln Arg Arg Lys Glu Ile Ala Gln Lys Ala Ala Glu Glu
340          345          350
Asn Glu Arg Tyr Arg Lys Glu Met Glu Gln Ile Val Glu Glu Glu Glu
355          360          365
Lys Phe Lys Lys Gln Trp Glu Glu Asp Trp Gly Ser Lys Glu Gln Leu

```

370  
 Leu Leu Pro Lys Thr Ile Thr Ala Glu Val His Pro Val Pro Leu Arg  
 385 390 395 400  
 Lys Pro Lys

<210> 554  
 <211> 1789  
 <212> DNA  
 <213> Homo Sapiens

<400> 554  
 cttctggatg catccgagaa gctaaaactt acttatgagg aaaagtgtga aattgaggaa 60  
 tcccaattga agtttttgag gaacgactta gctgaatata agagaacttg tgaagatctt 120  
 aaagagcaac taaagcataa agaatttctt ctggctgcta atacttgtaa ccgtgttggt 180  
 ggtctttggt tgaaatgtgc tcagcatgaa gctgttcttt cccaaaccca tactaatggt 240  
 catatgcaga ccatcgaaaag actgggttaa gaaagagatg acttgatgtc tgcactagtt 300  
 tccgtaagga gcagcttggt agatacgag caaagagaag caagtgttta tgaacagggtg 360  
 aaacaagttt tgcaaatatc tgaggaagcc aattttgaaa aaaccaaggc tttaatccag 420  
 tgtgaccagt tgaggaagga gctggagagg caggcggagg gacttgaaaa agaacttgca 480  
 tctcagcaag agaaaaaggg catttgagaa gacatgatga aaaaggaaat aacgaaagaa 540  
 agggagtaca tgggatcaaa gatgttgatc ttgtctcaga atattgcca actggaggcc 600  
 caggtggaaa aggttacaaa ggaaaagatt tcagctatta atcaactgga ggaaattcaa 660  
 agccagctgg cttctcgga aatggatgtc acaaaggtgt gtggagaaat gcgctatcag 720  
 ctgaataaaa ccaacatgga gaaggatgag gcagaaaagg agcacagaga gttcagagca 780  
 aaaactaaca gggatcttga aattaaagat caggaaatag agaaattgag aatagaactg 840  
 gatgaaagca aacaacactt ggaacaggag cagcagaagg cagccctggc cagagaggag 900  
 tgcttgagac taacagaact gctgggcgaa tctgagcacc aactgcacct caccagacag 960  
 gaaaaagata gcattcagca gagctttagc aaggaagcaa aggcccaagc ccttcaggcc 1020  
 cagcaaagag agcaggagct gacacagaag atacagcaaa tggaagccca gcatgacaaa 1080  
 actgaaaatg aacagtattt gttgctgacc tcccagaata catttttgac aaagttaaag 1140  
 gaagaatgct gtacattagc caagaaactg gaacaaatct ctcaaaaaac cagatctgaa 1200  
 atagctcaac tcagtcaaga aaaaaggtat acatatgata aattgggaaa gttacagaga 1260  
 agaaatgaag aattggagga acagtgtgtc cagcatggga gagtacatga gacgatgaag 1320  
 caaaggctaa ggcagctgga taagcacagc caggccacag cccagcagct ggtgcagctc 1380  
 ctgagcaagc agaaccagct tctcctggag aggcagagcc tgcggaaga ggtggaccgg 1440  
 ctgaggaccc agttaccag catgccacaa tctgattgct gacctggatg gaacagagtg 1500  
 aaataaatga attacaaaga gatatttaca ttcacttggt ttagacttaa tatgccacaa 1560  
 cgcaccacga ccttcccagg gtgacaccgc ctgagcctgc agtggggctg gtcctcatca 1620  
 acgcgggcgc tgtccccgca cgcagtcggg ctggagctgg agtctgactc tagctgagca 1680  
 gactcctggg gtatgttttc agaaatggct tgaagtattg tgtttaaatc tgctcattcg 1740  
 tatgctagggt tatacatatg attttcaata aatgaacttt ttaaagaaa 1789

<210> 555  
 <211> 493  
 <212> PRT  
 <213> Homo Sapiens

<400> 555  
 Leu Leu Asp Ala Ser Glu Lys Leu Lys Leu Thr Tyr Glu Glu Lys Cys  
 1 5 10 15  
 Glu Ile Glu Glu Ser Gln Leu Lys Phe Leu Arg Asn Asp Leu Ala Glu  
 20 25 30  
 Tyr Gln Arg Thr Cys Glu Asp Leu Lys Glu Gln Leu Lys His Lys Glu  
 35 40 45

Phe Leu Leu Ala Ala Asn Thr Cys Asn Arg Val Gly Gly Leu Cys Leu  
 50 55 60  
 Lys Cys Ala Gln His Glu Ala Val Leu Ser Gln Thr His Thr Asn Val  
 65 70 75 80  
 His Met Gln Thr Ile Glu Arg Leu Val Lys Glu Arg Asp Asp Leu Met  
 85 90 95  
 Ser Ala Leu Val Ser Val Arg Ser Ser Leu Ala Asp Thr Gln Gln Arg  
 100 105 110  
 Glu Ala Ser Ala Tyr Glu Gln Val Lys Gln Val Leu Gln Ile Ser Glu  
 115 120 125  
 Glu Ala Asn Phe Glu Lys Thr Lys Ala Leu Ile Gln Cys Asp Gln Leu  
 130 135 140  
 Arg Lys Glu Leu Glu Arg Gln Ala Glu Arg Leu Glu Lys Glu Leu Ala  
 145 150 155 160  
 Ser Gln Gln Glu Lys Arg Ala Ile Glu Lys Asp Met Met Lys Lys Glu  
 165 170 175  
 Ile Thr Lys Glu Arg Glu Tyr Met Gly Ser Lys Met Leu Ile Leu Ser  
 180 185 190  
 Gln Asn Ile Ala Gln Leu Glu Ala Gln Val Glu Lys Val Thr Lys Glu  
 195 200 205  
 Lys Ile Ser Ala Ile Asn Gln Leu Glu Glu Ile Gln Ser Gln Leu Ala  
 210 215 220  
 Ser Arg Glu Met Asp Val Thr Lys Val Cys Gly Glu Met Arg Tyr Gln  
 225 230 235 240  
 Leu Asn Lys Thr Asn Met Glu Lys Asp Glu Ala Glu Lys Glu His Arg  
 245 250 255  
 Glu Phe Arg Ala Lys Thr Asn Arg Asp Leu Glu Ile Lys Asp Gln Glu  
 260 265 270  
 Ile Glu Lys Leu Arg Ile Glu Leu Asp Glu Ser Lys Gln His Leu Glu  
 275 280 285  
 Gln Glu Gln Gln Lys Ala Ala Leu Ala Arg Glu Glu Cys Leu Arg Leu  
 290 295 300  
 Thr Glu Leu Leu Gly Glu Ser Glu His Gln Leu His Leu Thr Arg Gln  
 305 310 315 320  
 Glu Lys Asp Ser Ile Gln Gln Ser Phe Ser Lys Glu Ala Lys Ala Gln  
 325 330 335  
 Ala Leu Gln Ala Gln Gln Arg Glu Gln Glu Leu Thr Gln Lys Ile Gln  
 340 345 350  
 Gln Met Glu Ala Gln His Asp Lys Thr Glu Asn Glu Gln Tyr Leu Leu  
 355 360 365  
 Leu Thr Ser Gln Asn Thr Phe Leu Thr Lys Leu Lys Glu Glu Cys Cys  
 370 375 380  
 Thr Leu Ala Lys Lys Leu Glu Gln Ile Ser Gln Lys Thr Arg Ser Glu  
 385 390 395 400  
 Ile Ala Gln Leu Ser Gln Glu Lys Arg Tyr Thr Tyr Asp Lys Leu Gly  
 405 410 415  
 Lys Leu Gln Arg Arg Asn Glu Glu Leu Glu Glu Gln Cys Val Gln His  
 420 425 430  
 Gly Arg Val His Glu Thr Met Lys Gln Arg Leu Arg Gln Leu Asp Lys  
 435 440 445  
 His Ser Gln Ala Thr Ala Gln Gln Leu Val Gln Leu Leu Ser Lys Gln  
 450 455 460  
 Asn Gln Leu Leu Leu Glu Arg Gln Ser Leu Ser Glu Glu Val Asp Arg  
 465 470 475 480  
 Leu Arg Thr Gln Leu Pro Ser Met Pro Gln Ser Asp Cys

485

490

<210> 556  
 <211> 1306  
 <212> DNA  
 <213> Homo Sapiens

&lt;400&gt; 556

```

aaaaatagcc gcagcctgac catctccatt gtagctgcag ctggccggga gctgttcatg      60
acagaccggg agcggctggc agaggcgagg cagcgtgagc tgcagcggca ggagcttctc     120
atgcagaagc ggctggcgat ggagtccaac aagatcctcc aggagcagca ggagatggag      180
cggcaaaagg gaaaaaaaat tgcccagaag gcagcagagg aaaatgagag ataccggaag      240
gagatggaac agattgtaga ggaggaagag aagtttaaga agcaatggga agaagactgg      300
gggtcaaagg aacagctact cttgcctaaa accatcactg ctgaggtaca cccagtaccc      360
cttcgcaagc caaagtatga tcagggagtg gaacctgagc tcgagcccg c agatgacctg      420
gatggaggca cggaggagca gggagagcag gatttccgga aatatgagga aggctttgac      480
ccctactcta tgttcacccc agagcagatc atggggaagg atgtccggct cctacgcac      540
aagaaggagg gatccttaga cctggccctg gaaggcggtg tggactcccc cattgggaag      600
gtggtcgttt ctgctgtgta tgagcgggga gctgctgagc ggcatgggtg cattgtgaaa      660
ggggacgaga tcatggcaat caacggcaag attgtgacag actacaccct ggctgaggct      720
gacgctgccc tgcagaaggc ctggaatcag ggcggggact ggatcgacct tgtggttgcc      780
gtctgcccc caaaggagta tgacgatgag ctgaccttct tgetgaagtc caaaagggga      840
aaccaaattc acgcgttagg aaacagttag ctccggcccc acctcgtgaa caaaaagcct      900
cggaccagcc ttgagagagg ccacatgaca cacaccagat ggcatccttg ggacctgaat      960
ctatcaccca ggaatctcaa actccctttg gccctgaacc agggccagat aaggaaacagc    1020
tcggggccact tttttgaagg ccaatgtgga ggaaaggag cagccagccg tttgggagaa    1080
gatctcaagg atccagactc tcattccttt cctctgcccc agtgaatttg gtctctccca    1140
gctttggggg actccttctt tgaaccctaa taagacccca ctggagtctc tctctctcca    1200
tccctctcct ctgcctctct ctctaattgc tgccaggatt gtcactccaa accttactct    1260
gagctcatta ataaaataaa cagatttatt ttccagctta aaaaaa                    1306

```

<210> 557  
 <211> 328  
 <212> PRT  
 <213> Homo Sapiens

&lt;400&gt; 557

```

Met Glu Ser Asn Lys Ile Leu Gln Glu Gln Gln Glu Met Glu Arg Gln
 1             5             10             15
Arg Arg Lys Glu Ile Ala Gln Lys Ala Ala Glu Glu Asn Glu Arg Tyr
      20             25             30
Arg Lys Glu Met Glu Gln Ile Val Glu Glu Glu Lys Phe Lys Lys
      35             40             45
Gln Trp Glu Glu Asp Trp Gly Ser Lys Glu Gln Leu Leu Leu Pro Lys
      50             55             60
Thr Ile Thr Ala Glu Val His Pro Val Pro Leu Arg Lys Pro Lys Tyr
      65             70             75             80
Asp Gln Gly Val Glu Pro Glu Leu Glu Pro Ala Asp Asp Leu Asp Gly
      85             90             95
Gly Thr Glu Glu Gln Gly Glu Gln Asp Phe Arg Lys Tyr Glu Glu Gly
      100            105            110
Phe Asp Pro Tyr Ser Met Phe Thr Pro Glu Gln Ile Met Gly Lys Asp
      115            120            125
Val Arg Leu Leu Arg Ile Lys Lys Glu Gly Ser Leu Asp Leu Ala Leu
      130            135            140

```

Glu Gly Gly Val Asp Ser Pro Ile Gly Lys Val Val Val Ser Ala Val  
 145 150 155 160  
 Tyr Glu Arg Gly Ala Ala Glu Arg His Gly Gly Ile Val Lys Gly Asp  
 165 170 175  
 Glu Ile Met Ala Ile Asn Gly Lys Ile Val Thr Asp Tyr Thr Leu Ala  
 180 185 190  
 Glu Ala Asp Ala Ala Leu Gln Lys Ala Trp Asn Gln Gly Gly Asp Trp  
 195 200 205  
 Ile Asp Leu Val Val Ala Val Cys Pro Pro Lys Glu Tyr Asp Asp Glu  
 210 215 220  
 Leu Thr Phe Leu Leu Lys Ser Lys Arg Gly Asn Gln Ile His Ala Leu  
 225 230 235 240  
 Gly Asn Ser Glu Leu Arg Pro His Leu Val Asn Thr Lys Pro Arg Thr  
 245 250 255  
 Ser Leu Glu Arg Gly His Met Thr His Thr Arg Trp His Pro Trp Asp  
 260 265 270  
 Leu Asn Leu Ser Pro Arg Asn Leu Lys Leu Pro Leu Ala Leu Asn Gln  
 275 280 285  
 Gly Gln Ile Arg Asn Ser Ser Gly His Phe Phe Glu Gly Gln Cys Gly  
 290 295 300  
 Gly Lys Gly Ala Ala Ser Arg Leu Gly Glu Asp Leu Lys Asp Pro Asp  
 305 310 315 320  
 Ser His Ser Phe Pro Leu Ala Gln  
 325

&lt;210&gt; 558

&lt;211&gt; 2289

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 558

cctggcccg	tcgcggtcgc	ggctctttcc	agctcctggc	agccggggcac	ccgaaggaac	60
gggtcgtgca	acgacgcagc	tggacctggc	ccagccatgg	accgaaaagt	ggcccagagaa	120
ttccggcata	aggtggattt	tctgattgaa	aatgatgcag	agaaggacta	tctctatgat	180
gtgctgcgaa	tgtaccacca	gaccatggac	gtggccgtgc	tcgtgggaga	cctgaagctg	240
gtcatcaatg	aaccacgccc	tctgcctctg	tttgatgcc	ttcggccgct	gatccactg	300
aagcaccagg	tggaaatga	tcagctgacc	ccccggcgct	ccaggaagct	gaaggaggtg	360
cgtctggacc	gtctgcaccc	cgaaggcctc	ggcctgagtg	tgcgtggtgg	cctggagtgt	420
ggctgtgggc	tcttcatctc	ccacctcatc	aaaggcggtc	aggcagacag	cgctgggctc	480
caggtagggg	acgagatcgt	cgggatcaat	ggatattcca	tctctcctctg	tacctatgag	540
gaggtcatca	acctcattcg	aaccaagaaa	actgtgtcca	tcaaagttag	acacatcggc	600
ctgatccccg	tgaagagctc	tctgatgag	cccctcactt	ggcagtatgt	ggatcagtgt	660
gtgtcggaat	ctggggggcgt	gcgaggcagc	ctgggctccc	ctggaaatcg	ggaaaacaag	720
gagaagaagg	tcttcatcag	cctggtaggc	tcccaggaggc	ttggctgcag	catttccagc	780
ggccccatcc	agaagcctgg	catctttatc	agccatgtga	aacctggctc	cctgtctgct	840
gaggtgggat	tggagatagg	ggaccagatt	gtcgaagtca	atggcgctga	cttctctaac	900
ctggatcaca	aggaggctgt	aaatgtgctg	aaaaatagcc	gcagcctgac	catctccatt	960
gtagctgcag	ctggccggga	gctgttcatg	acagaccggg	agcggctggc	agaggcgagg	1020
cagcgtgagc	tgcagcggca	ggagcttctc	atgcagaagc	ggctggcgat	ggagtccaac	1080
aagatctccc	aggagcagca	ggagatggag	cggcaaagga	gaaaagaaat	tgcccagaag	1140
gcagcagagg	aaaatgagag	ataccggaag	gagatggaac	agattgtaga	ggaggaagag	1200
aagtttaaga	agcaatggga	agaagactgg	ggctcaaagg	aacagtgact	cttgcctaaa	1260
accatcactg	ctgaggtaca	cccagtaccc	cttcgcaagc	caaagtatga	tcagggagtg	1320
gaacctgagc	tcgagcccg	agatgacctg	gatggaggca	cggaggagca	gggagagcag	1380
ccacaggaga	tgttgaagag	gatggtgggt	tatcaagaca	gcattcaaga	caagatttcc	1440



```

ggaaatatga ggaaggcttt gaccctact ctatgttcac cccagagcag atcatgggga 1500
aggatgtccg gctcctacgc atcaagaagg agggatcctt agacctggcc ctggaaggcg 1560
gtgtggactc ccccatggg aaggtggtcg tttctgctgt gtatgagcgg ggagctgctg 1620
agcggcatgg tggcattgtg aaaggggacg agatcatggc aatcaacggc aagattgtga 1680
cagactacac cctggctgag gctgacgctg ccctgcagaa ggcctggaat cagggcgggg 1740
actggatcga ccttgtggtt gccgtctgcc ccccaaagga gtatgacgat gagctgacct 1800
tcttctgtaa gtccaaaagg ggaacccaaa ttcacgcgtt aggaaacagt gagctccggc 1860
cccacctcgt gaacacaaag cctcggacca gccttgagag aggccacatg acacacacca 1920
gatggcatcc ttgggacctg aatctatcac ccaggaatct caaactccct ttggccctga 1980
accagggcca gataaggaac agctcgggcc acttttttga aggccaatgt ggaggaaagg 2040
gagcagccag ccgtttggga gaagatctca aggatccaga ctctcattcc tttcctctgg 2100
cccagtgaat ttggtctctc ccagcttttg gggactcctt ccttgaaccc taataagacc 2160
ccactggagt ctctctctct ccactcctct cctctgcctt ctgctctaata tgctgccagg 2220
attgtcactc caaaccttac tctgagctca ttaataaaat aaacagattt atttccagc 2280
ttaaaaaaa 2289

```

&lt;210&gt; 559

&lt;211&gt; 481

&lt;212&gt; PRT

&lt;213&gt; Homo Sapiens

&lt;400&gt; 559

```

Met Asp Arg Lys Val Ala Arg Glu Phe Arg His Lys Val Asp Phe Leu
 1             5             10             15
Ile Glu Asn Asp Ala Glu Lys Asp Tyr Leu Tyr Asp Val Leu Arg Met
             20             25             30
Tyr His Gln Thr Met Asp Val Ala Val Leu Val Gly Asp Leu Lys Leu
             35             40             45
Val Ile Asn Glu Pro Ser Arg Leu Pro Leu Phe Asp Ala Ile Arg Pro
             50             55             60
Leu Ile Pro Leu Lys His Gln Val Glu Tyr Asp Gln Leu Thr Pro Arg
             65             70             75             80
Arg Ser Arg Lys Leu Lys Glu Val Arg Leu Asp Arg Leu His Pro Glu
             85             90             95
Gly Leu Gly Leu Ser Val Arg Gly Gly Leu Glu Phe Gly Cys Gly Leu
             100            105            110
Phe Ile Ser His Leu Ile Lys Gly Gly Gln Ala Asp Ser Val Gly Leu
             115            120            125
Gln Val Gly Asp Glu Ile Val Arg Ile Asn Gly Tyr Ser Ile Ser Ser
             130            135            140
Cys Thr His Glu Glu Val Ile Asn Leu Ile Arg Thr Lys Lys Thr Val
             145            150            155            160
Ser Ile Lys Val Arg His Ile Gly Leu Ile Pro Val Lys Ser Ser Pro
             165            170            175
Asp Glu Pro Leu Thr Trp Gln Tyr Val Asp Gln Phe Val Ser Glu Ser
             180            185            190
Gly Gly Val Arg Gly Ser Leu Gly Ser Pro Gly Asn Arg Glu Asn Lys
             195            200            205
Glu Lys Lys Val Phe Ile Ser Leu Val Gly Ser Arg Gly Leu Gly Cys
             210            215            220
Ser Ile Ser Ser Gly Pro Ile Gln Lys Pro Gly Ile Phe Ile Ser His
             225            230            235            240
Val Lys Pro Gly Ser Leu Ser Ala Glu Val Gly Leu Glu Ile Gly Asp
             245            250            255
Gln Ile Val Glu Val Asn Gly Val Asp Phe Ser Asn Leu Asp His Lys

```

	260		265		270										
Glu	Ala	Val	Asn	Val	Leu	Lys	Asn	Ser	Arg	Ser	Leu	Thr	Ile	Ser	Ile
	275		280		285										
Val	Ala	Ala	Ala	Gly	Arg	Glu	Leu	Phe	Met	Thr	Asp	Arg	Glu	Arg	Leu
	290		295		300										
Ala	Glu	Ala	Arg	Gln	Arg	Glu	Leu	Gln	Arg	Gln	Glu	Leu	Leu	Met	Gln
305			310		315									320	
Lys	Arg	Leu	Ala	Met	Glu	Ser	Asn	Lys	Ile	Leu	Gln	Glu	Gln	Gln	Glu
			325		330									335	
Met	Glu	Arg	Gln	Arg	Arg	Lys	Glu	Ile	Ala	Gln	Lys	Ala	Ala	Glu	Glu
			340		345									350	
Asn	Glu	Arg	Tyr	Arg	Lys	Glu	Met	Glu	Gln	Ile	Val	Glu	Glu	Glu	Glu
	355		360		365										
Lys	Phe	Lys	Lys	Gln	Trp	Glu	Glu	Asp	Trp	Gly	Ser	Lys	Glu	Gln	Leu
	370		375		380										
Leu	Leu	Pro	Lys	Thr	Ile	Thr	Ala	Glu	Val	His	Pro	Val	Pro	Leu	Arg
385			390		395									400	
Lys	Pro	Lys	Tyr	Asp	Gln	Gly	Val	Glu	Pro	Glu	Leu	Glu	Pro	Ala	Asp
			405		410									415	
Asp	Leu	Asp	Gly	Gly	Thr	Glu	Glu	Gln	Gly	Glu	Gln	Pro	Gln	Glu	Met
	420		425		430										
Leu	Lys	Arg	Met	Val	Val	Tyr	Gln	Asp	Ser	Ile	Gln	Asp	Lys	Ile	Ser
	435		440		445										
Gly	Asn	Met	Arg	Lys	Ala	Leu	Thr	Pro	Thr	Leu	Cys	Ser	Pro	Gln	Ser
	450		455		460										
Arg	Ser	Trp	Gly	Arg	Met	Ser	Gly	Ser	Tyr	Ala	Ser	Arg	Arg	Arg	Asp
465			470		475									480	
Pro															

&lt;210&gt; 560

&lt;211&gt; 2409

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 560

cctggccccg	tcgcggctgc	ggctctttcc	agctcctggc	agccgggcac	ccgaaggaac	60
gggtcgtgca	acgacgcagc	tggacctggc	ccagccatgg	accgaaaagt	ggccccagaa	120
ttccggcata	aggtggattt	tctgattgaa	aatgatgcag	agaaggacta	tctctatgat	180
gtgctgcgaa	tgtaccacca	gaccatggac	gtggccgtgc	tcgtgggaga	cctgaagctg	240
gtcatcaatg	aacccagccg	tctgcctctg	tttgatgcca	ttcggccgct	gatcccaactg	300
aagcaccagg	tggaaataga	tcagctgacc	ccccggcgct	ccaggaagct	gaaggaggtg	360
cgtctggacc	gtctgcaccc	cgaaggcctc	ggcctgagtg	tgcgtggtgg	cctggagttt	420
ggctgtgggc	tcttcatctc	ccacctcatc	aaaggcggtc	aggcagacag	cgtcgggctc	480
caggtagggg	acgagatcgt	ccggatcaat	ggatattcca	tctcctcctg	tacctatgag	540
gaggtcatca	acctcattcg	aaccaagaaa	actgtgtcca	tcaaagttag	acacatcggt	600
ctgatccccg	tgaaaagctc	tctgatgag	cccctcactt	ggcagtatgt	ggatcagttt	660
gtgtcggaat	ctggggcgct	gcgaggcagc	ctgggctccc	ctggaaatcg	ggaaaacaag	720
gagaagaagg	tcttcatcag	cctggtaggc	tcccagggcc	ttggctgcag	catttccagc	780
ggccccatcc	agaagcctgg	catctttatc	agccatgtga	aacctggctc	cctgtctgct	840
gaggtgggat	tggagatagg	ggaccagatt	gtcgaagtca	atggcgctga	cttctctaac	900
ctggatcaca	aggaggctgt	aaatgtgctg	aaaaatagcc	gcagcctgac	catctccatt	960
gtagctgcag	ctggccggga	gctgttcatg	acagaccggg	agcggctggc	agaggcgctg	1020
cagcgtgagc	tgcagcggca	ggagcttctc	atgcagaagc	ggctggcgat	ggagtccaac	1080
aagatcctcc	aggagcagca	ggagatggag	cggcaaagga	gaaaagaaat	tgcccagaag	1140

```

gcagcagagg aaaatgagag ataccggaag gagatggaac agattgtaga ggaggaagag 1200
aagtttaaga agcaatggga agaagactgg ggctcaaagg aacagctact ctgcctaaa 1260
accatcactg ctgaggtaga cccagtaccc cttcgcaagc caaagtatga tcaggagtg 1320
gaacctgagc tcgagcccg cagatgacct gatggaggca cggaggagca gggagagcag 1380
acattttgcc caagcccaca gcctccacga ggccctggcg tgtccaccat ctccaaacct 1440
gtcatgggcc accaggagcc caatttcac tacaggccag ctgtgaaatc tgaagttctg 1500
ccacaggaga tgttgaagag gatgggtggt tatcaagaca gcattcaaga caagatttcc 1560
ggaaatatga ggaaggcttt gaccttact ctatgttcac cccagagcag atcatgggga 1620
aggatgtccg gctcctacgc atcaagaagg agggatcctt agacctggcc ctggaaggcg 1680
gtgtggactc cccattggg aaggtggctg tttctgctgt gtatgagcgg ggagctgctg 1740
agcggcatgg tggcattgtg aaaggggacg agatcatggc aatcaacggc aagattgtga 1800
cagactacac cctggctgag gctgacgctg ccctgcagaa ggccctggaat cagggcgggg 1860
actggatcga cttgtggtt gccgtctgcc ccccaaagga gtatgacgat gagctgacct 1920
tcttgctgaa gtccaaaagg gaaaccaa ttcacgcgtt aggaaacagt gagctccggc 1980
ccacctcgt gaacacaaag cctcggacca gccttgagag aggccacatg acacacacca 2040
gatggcatcc ttgggacctg aatctatcac ccaggaatct caaactccct ttggccctga 2100
accagggcca gataaggaa agctcgggcc acttttttga aggccaatgt ggaggaaagg 2160
gagcagccag ccgtttggga gaagatctca aggatccaga ctctcattcc tttcctctgg 2220
ccagtgaaat ttggtctctc ccagctttgg gggactcctt ccttgaacct taataagacc 2280
ccactggagt ctctctctct ccacccctct cctctgccct ctgctcta at tgctgccagg 2340
attgtcactc caaaccttac tctgagctca ttaataaaat aaacagattt attttccagc 2400
ttaaaaaaa 2409

```

&lt;210&gt; 561

&lt;211&gt; 521

&lt;212&gt; PRT

&lt;213&gt; Homo Sapiens

&lt;400&gt; 561

```

Met Asp Arg Lys Val Ala Arg Glu Phe Arg His Lys Val Asp Phe Leu
 1             5             10            15
Ile Glu Asn Asp Ala Glu Lys Asp Tyr Leu Tyr Asp Val Leu Arg Met
      20             25             30
Tyr His Gln Thr Met Asp Val Ala Val Leu Val Gly Asp Leu Lys Leu
      35             40             45
Val Ile Asn Glu Pro Ser Arg Leu Pro Leu Phe Asp Ala Ile Arg Pro
 50             55             60
Leu Ile Pro Leu Lys His Gln Val Glu Tyr Asp Gln Leu Thr Pro Arg
65             70             75             80
Arg Ser Arg Lys Leu Lys Glu Val Arg Leu Asp Arg Leu His Pro Glu
      85             90             95
Gly Leu Gly Leu Ser Val Arg Gly Gly Leu Glu Phe Gly Cys Gly Leu
      100            105            110
Phe Ile Ser His Leu Ile Lys Gly Gly Gln Ala Asp Ser Val Gly Leu
      115            120            125
Gln Val Gly Asp Glu Ile Val Arg Ile Asn Gly Tyr Ser Ile Ser Ser
      130            135            140
Cys Thr His Glu Glu Val Ile Asn Leu Ile Arg Thr Lys Lys Thr Val
145            150            155            160
Ser Ile Lys Val Arg His Ile Gly Leu Ile Pro Val Lys Ser Ser Pro
      165            170            175
Asp Glu Pro Leu Thr Trp Gln Tyr Val Asp Gln Phe Val Ser Glu Ser
      180            185            190
Gly Gly Val Arg Gly Ser Leu Gly Ser Pro Gly Asn Arg Glu Asn Lys
      195            200            205

```

Glu Lys Lys Val Phe Ile Ser Leu Val Gly Ser Arg Gly Leu Gly Cys  
 210 215 220  
 Ser Ile Ser Ser Gly Pro Ile Gln Lys Pro Gly Ile Phe Ile Ser His  
 225 230 235 240  
 Val Lys Pro Gly Ser Leu Ser Ala Glu Val Gly Leu Glu Ile Gly Asp  
 245 250 255  
 Gln Ile Val Glu Val Asn Gly Val Asp Phe Ser Asn Leu Asp His Lys  
 260 265 270  
 Glu Ala Val Asn Val Leu Lys Asn Ser Arg Ser Leu Thr Ile Ser Ile  
 275 280 285  
 Val Ala Ala Ala Gly Arg Glu Leu Phe Met Thr Asp Arg Glu Arg Leu  
 290 295 300  
 Ala Glu Ala Arg Gln Arg Glu Leu Gln Arg Gln Glu Leu Leu Met Gln  
 305 310 315 320  
 Lys Arg Leu Ala Met Glu Ser Asn Lys Ile Leu Gln Glu Gln Gln Glu  
 325 330 335  
 Met Glu Arg Gln Arg Arg Lys Glu Ile Ala Gln Lys Ala Ala Glu Glu  
 340 345 350  
 Asn Glu Arg Tyr Arg Lys Glu Met Glu Gln Ile Val Glu Glu Glu Glu  
 355 360 365  
 Lys Phe Lys Lys Gln Trp Glu Glu Asp Trp Gly Ser Lys Glu Gln Leu  
 370 375 380  
 Leu Leu Pro Lys Thr Ile Thr Ala Glu Val His Pro Val Pro Leu Arg  
 385 390 395 400  
 Lys Pro Lys Tyr Asp Gln Gly Val Glu Pro Glu Leu Glu Pro Ala Asp  
 405 410 415  
 Asp Leu Asp Gly Gly Thr Glu Glu Gln Gly Glu Gln Thr Phe Cys Pro  
 420 425 430  
 Ser Pro Gln Pro Pro Arg Gly Pro Gly Val Ser Thr Ile Ser Lys Pro  
 435 440 445  
 Val Met Val His Gln Glu Pro Asn Phe Ile Tyr Arg Pro Ala Val Lys  
 450 455 460  
 Ser Glu Val Leu Pro Gln Glu Met Leu Lys Arg Met Val Val Tyr Gln  
 465 470 475 480  
 Asp Ser Ile Gln Asp Lys Ile Ser Gly Asn Met Arg Lys Ala Leu Thr  
 485 490 495  
 Pro Thr Leu Cys Ser Pro Gln Ser Arg Ser Trp Gly Arg Met Ser Gly  
 500 505 510  
 Ser Tyr Ala Ser Arg Arg Arg Asp Pro  
 515 520

&lt;210&gt; 562

&lt;211&gt; 1445

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 562

ctccggcagg	gagtcctagc	gcagactttg	cggttcattg	agagtctctg	ggagacaggc	60
acctgcggac	gctgcagata	agttacgacg	cactgaaaga	tgaaaattct	aagctgagaa	120
gaaagctgaa	tgagggttcag	agcttctctg	aagctcaaac	agaaatggtg	aggacgcttg	180
agcggaagtt	agaagcaaaa	atgatcaagg	aggaaagcga	ctaccacgac	ctggagtcgg	240
tggttcagca	ggtggagcag	aacctggagc	tgatgaccaa	acgggctgta	aaggcagaaa	300
accacgtcgt	gaaactaaaa	caggaaatca	gtttgctcca	ggcgcaggtc	tccaacttcc	360
agcgagagaa	tgaagccctg	cggtgcggcc	agggtgccag	cctgaccgtg	gtgaagcaga	420
acgccgacgt	ggccctgcag	aacctccggg	tggtcatgaa	cagtgcacag	gcttccatca	480

```

agcaactggt ttccggagct gagacactga atcttggtgc cgaaatcctt aaatctatag      540
acagaatttc tgaagttaaa gacgaggagg aagactcttg aggaccctcg ggtgttctca      600
gcatgaagct ccgtgtatac cctgagggtca ccaccgctcg atctaaatgt gcagttgtgt      660
ccttaaatat gcagtcttca cccagagtaa agtgttgatc gcaagagtcc agtgtcgtgc      720
cctcagccag ttcttggcca ccacaatggg agcagccctg gccgagttgt ctctgtgggt      780
tctatgcagc ccttcttggc gaaattcctg cgatcttata gattctaatag agctcttggg      840
agacattgtc ataaaagcca gtgattttta gaaaagaggt ggttctggaa tcaatgtttt      900
ccagtcccat cccagaacat cagttgtaag ataagtacaa ttgggtgtcc ttgatttcat      960
aagtagaaca aacactaaat gtgcctctga gatggccacc ccgggcaggg acctgtgcct     1020
tccgccgatg ctccagggctc cctctggctc ccgggtcact cttgtggccc cagtgggtgg     1080
tccctgcagt catggcctga gtgcgcaggg gccaccgcgt ggctgctgct gtcctcctcc     1140
ggggaccacg ggggaacaag gtcacacctt ccgtgctgtg aagctgtcca gatgtgcctc     1200
tttgctggg gggtttgggt gacgtttcaa gtggcatttt gtacaatgca ggtagaatt      1260
caggaatttc aagtatgtgc ccgggtntgt caggtcccag ttgccttnt gacggcccc     1320
ctcagagggg cggcgatgag cactaaatgc ttttttgant attttcctat agattttttt     1380
taaaactttt ttttcctcct gttccaattg atagctttct tatttaataa attctgtagt     1440
tcacc                                             1445

```

<210> 563  
 <211> 192  
 <212> PRT  
 <213> Homo Sapiens

```

<400> 563
Pro Ala Gly Ser Pro Ser Ala Asp Phe Ala Val His Gly Glu Ser Leu
 1             5             10             15
Gly Asp Arg His Leu Arg Thr Leu Gln Ile Ser Tyr Asp Ala Leu Lys
             20             25             30
Asp Glu Asn Ser Lys Leu Arg Arg Lys Leu Asn Glu Val Gln Ser Phe
             35             40             45
Ser Glu Ala Gln Thr Glu Met Val Arg Thr Leu Glu Arg Lys Leu Glu
             50             55             60
Ala Lys Met Ile Lys Glu Glu Ser Asp Tyr His Asp Leu Glu Ser Val
             65             70             75             80
Val Gln Gln Val Glu Gln Asn Leu Glu Leu Met Thr Lys Arg Ala Val
             85             90             95
Lys Ala Glu Asn His Val Val Lys Leu Lys Gln Glu Ile Ser Leu Leu
             100            105            110
Gln Ala Gln Val Ser Asn Phe Gln Arg Glu Asn Glu Ala Leu Arg Cys
             115            120            125
Gly Gln Gly Ala Ser Leu Thr Val Val Lys Gln Asn Ala Asp Val Ala
             130            135            140
Leu Gln Asn Leu Arg Val Val Met Asn Ser Ala Gln Ala Ser Ile Lys
             145            150            155            160
Gln Leu Val Ser Gly Ala Glu Thr Leu Asn Leu Val Ala Glu Ile Leu
             165            170            175
Lys Ser Ile Asp Arg Ile Ser Glu Val Lys Asp Glu Glu Glu Asp Ser
             180            185            190

```

<210> 564  
 <211> 1226  
 <212> DNA  
 <213> Homo Sapiens

<400> 564

```

ctggggccgcg aggcgcggag cttggggagcg gagcccaggc cgtgccgcgc ggcgccatga      60
agggcaaggag ggagaaggag ggcggcgcac ggctgggcgc tggcggcgga agccccgaga      120
agagcccagag cgcgcaggag ctcaaggagc agggcaatcg tctgttcgtg ggccgaaagt      180
acccggaggc ggcgccctgc tacggccgcg cgatcacccg gaacccgctg gtggccgtgt      240
attacaccaa ccgggccttg tgctacctga agatgcagca gcacgagcag gccctggccg      300
actgccggcg cgccctggag ctggacgggc agtctgtgaa ggcgcacttc ttcctggggc      360
agtgccagct ggagatggag agctatgatg aggccatcgc caatctgcag cgagcttaca      420
gcctggccaa ggagcagcgg ctgaacttcg gggacgacat cccagcgcct cttcgaatcg      480
cgaagaagaa gcgctggaac agcattgagg agcggcgcat ccaccaggag agcgagctgc      540
actcctacct ctccaggctc attgccgcgg agcgtgagag ggagctggaa gagtgccagc      600
gaaaccacga ggggtgatgag gacgacagcc acgtccgggc ccagcaggcc tgcattgagg      660
ccaagcacga caagtacatg gcggacatgg acgagctttt ttctcaggtg gatgagaaga      720
ggaagaagcg agacatcccc gactacctgt gtggcaagat cagctttgag ctgatgcggg      780
agcgtgcat cacgcccagt ggcacacact acgaccgcaa ggacatcgag gagcacctgc      840
agcgtgtggg tcattttgac ccggtgaccg ggagccccct gaccaggaa cagttcatcc      900
ccaactggc tatgaaggag gttattgacg cattcatctc tgagaatggc tgggtggagg      960
actactgagg ttccctgccc tacctggcgt cctggtccag gggagccctg ggcagaagcc     1020
cccgccccc aaacatagtt tatgtttttg gccaccccg cgccttcccc caagtctgc      1080
tggttgactc tggactgttt cccctctcag catcgctttt gctgggcctg gattgtcccc      1140
tttgtgggct ggaaaagcag gtgaggggtg gctgggctga ggccattgcc gccactatct      1200
gtgtaataaa atccgtgagc acgaaa                                     1226

```

&lt;210&gt; 565

&lt;211&gt; 303

&lt;212&gt; PRT

&lt;213&gt; Homo Sapiens

&lt;400&gt; 565

```

Met Lys Gly Lys Glu Lys Glu Gly Gly Ala Arg Leu Gly Ala Gly
 1          5          10          15
Gly Gly Ser Pro Glu Lys Ser Pro Ser Ala Gln Glu Leu Lys Glu Gln
 20          25          30
Gly Asn Arg Leu Phe Val Gly Arg Lys Tyr Pro Glu Ala Ala Ala Cys
 35          40          45
Tyr Gly Arg Ala Ile Thr Arg Asn Pro Leu Val Ala Val Tyr Tyr Thr
 50          55          60
Asn Arg Ala Leu Cys Tyr Leu Lys Met Gln Gln His Glu Gln Ala Leu
 65          70          75          80
Ala Asp Cys Arg Arg Ala Leu Glu Leu Asp Gly Gln Ser Val Lys Ala
 85          90          95
His Phe Phe Leu Gly Gln Cys Gln Leu Glu Met Glu Ser Tyr Asp Glu
100          105          110
Ala Ile Ala Asn Leu Gln Arg Ala Tyr Ser Leu Ala Lys Glu Gln Arg
115          120          125
Leu Asn Phe Gly Asp Asp Ile Pro Ser Ala Leu Arg Ile Ala Lys Lys
130          135          140
Lys Arg Trp Asn Ser Ile Glu Glu Arg Arg Ile His Gln Glu Ser Glu
145          150          155          160
Leu His Ser Tyr Leu Ser Arg Leu Ile Ala Ala Glu Arg Glu Arg Glu
165          170          175
Leu Glu Glu Cys Gln Arg Asn His Glu Gly Asp Glu Asp Asp Ser His
180          185          190
Val Arg Ala Gln Gln Ala Cys Ile Glu Ala Lys His Asp Lys Tyr Met
195          200          205
Ala Asp Met Asp Glu Leu Phe Ser Gln Val Asp Glu Lys Arg Lys Lys

```

```

      210              215              220
Arg Asp Ile Pro Asp Tyr Leu Cys Gly Lys Ile Ser Phe Glu Leu Met
225              230              235              240
Arg Glu Pro Cys Ile Thr Pro Ser Gly Ile Thr Tyr Asp Arg Lys Asp
      245              250              255
Ile Glu Glu His Leu Gln Arg Val Gly His Phe Asp Pro Val Thr Gly
      260              265              270
Ser Pro Leu Thr Gln Glu Gln Phe Ile Pro Asn Leu Ala Met Lys Glu
      275              280              285
Val Ile Asp Ala Phe Ile Ser Glu Asn Gly Trp Val Glu Asp Tyr
      290              295              300

```

<210> 566  
 <211> 1857  
 <212> DNA  
 <213> Homo Sapiens

```

      <400> 566
gtgaggggct cctttgggca ggggtagtgt ttggtgtccc tgtcttgcgt gatattgaca      60
aactgaagct ttccctgcacc actggactta aggaanagtg tactcgtagg cggacagctt      120
tagtggccgg ccggccgctc tcatcccccg taaggagcag agtcctttgt actgaccaag      180
atgagcaaca tctacatcca ggagcctccc acgaatggga aggttttatt gaaaactaca      240
gctggagata ttgacataga gttgtgtgtcc aaagaagctc cttaaagcttg cagaaatttt      300
atcccaactt tgtttggaag cttattatga caataccatt ttcatagag ttgtgcctgg      360
tttcatagtc caaggcggag atcctactgg cacagggagt ggtggagagt ctatctatgg      420
agcgccattc aaagatgaat ttcattcacg gttgcgtttt aatcggagag gactggttgc      480
catggcaaat gctggttctc atgataatgg caccactttt ttcttcacac tgggtcgagc      540
agatgaactt aacaataaagc ataccatctt tggaagggtt acaggggata cagtatataa      600
catgttgcca ctgtcagaag tagacattga tgatgacgaa agaccacata atccacacaa      660
aataaaaagc tgtgaggttt tgtttaatcc ttttgatgac atcattccaa gggaaattaa      720
aaggctgaaa aaagagaaac cagaggagga agtaaagaaa ttgaaaccca aaggcacaaa      780
aaatttttagt ttactttcat ttggagagga agctgaggaa gaagaagagg aagtaaatcg      840
agttagtcag agcatgaagg gcaaaaagcaa aagtagtcat gacttgctta aggatgatcc      900
acatctcagt tctgttccag ttgtagaaag tgaaaaaggt gatgcaccag atttagttga      960
tgatggagaa gatgaaagtg cagagcatga tgaatatatt gatggtgatg aaaagaacct      1020
gatgagagaa agaattgcc aaaaattaaa aaaggacaca agtgcgaatg ttaaatcagc      1080
tggaagagga gaagtggaga agaaatcagt cagccgcagt gaagagctca gaaaagaagc      1140
aagacaatta aaacgggaac tcttagcagc aaaacaaaaa aaagtagaaa atgcagcaaa      1200
acaagcagaa aaaagaagtg aagaggaaga agcccctcca gatggtgctg ttgccgaata      1260
cagaagagaa aagcaaaagt atgaagcttt gaggaagcaa cagtcaaaga agggaaacttc      1320
ccgggaagat cagacccttg cactgctgaa ccagtttaaa tctaaactca ctcaagcaat      1380
tgctgaaaaca cctgaaaaatg acattcctga aacagaagta gaagatgatg aaggatggat      1440
gtcacatgta cttcagtttg aggataaaag cagaaaagtg aaagatgcaa gcatgcaaga      1500
ctcagatata tttgaaatct atgacctctg gaatccagtg aataaaagaa ggaggggaaga      1560
aagcaaaaag ctgatgagag agaaaaaaga aagaagataa aatgagaata atgataacca      1620
gaacttgctg gaaatgtgcc tacaatggcc ttgtaacagc cattgttccc aacagcatca      1680
cttaggggtg tgaaaagaag tatttttgaa cctgttgtct ggttttgaaa aacaattatc      1740
ttgttttgca aattgtggaa tgatgtaagc aaatgctttt ggttactggt acatgtgttt      1800
tttcctagct gaccttttat attgctaaat ctgaaataaa ataactttcc ttccaaa      1857

```

<210> 567  
 <211> 372  
 <212> PRT  
 <213> Homo Sapiens

<400> 567

Met	Ala	Asn	Ala	Gly	Ser	His	Asp	Asn	Gly	Thr	His	Phe	Phe	Phe	Thr
1			5						10					15	
Leu	Gly	Arg	Ala	Asp	Glu	Leu	Asn	Asn	Lys	His	Thr	Ile	Phe	Gly	Lys
			20				25					30			
Val	Thr	Gly	Asp	Thr	Val	Tyr	Asn	Met	Leu	Arg	Leu	Ser	Glu	Val	Asp
		35					40				45				
Ile	Asp	Asp	Asp	Glu	Arg	Pro	His	Asn	Pro	His	Lys	Ile	Lys	Ser	Cys
	50					55				60					
Glu	Val	Leu	Phe	Asn	Pro	Phe	Asp	Asp	Ile	Ile	Pro	Arg	Glu	Ile	Lys
65				70					75					80	
Arg	Leu	Lys	Lys	Glu	Lys	Pro	Glu	Glu	Glu	Val	Lys	Lys	Leu	Lys	Pro
			85					90					95		
Lys	Gly	Thr	Lys	Asn	Phe	Ser	Leu	Leu	Ser	Phe	Gly	Glu	Glu	Ala	Glu
			100				105					110			
Glu	Glu	Glu	Glu	Glu	Val	Asn	Arg	Val	Ser	Gln	Ser	Met	Lys	Gly	Lys
			115			120				125					
Ser	Lys	Ser	Ser	His	Asp	Leu	Leu	Lys	Asp	Asp	Pro	His	Leu	Ser	Ser
	130					135				140					
Val	Pro	Val	Val	Glu	Ser	Glu	Lys	Gly	Asp	Ala	Pro	Asp	Leu	Val	Asp
145				150					155					160	
Asp	Gly	Glu	Asp	Glu	Ser	Ala	Glu	His	Asp	Glu	Tyr	Ile	Asp	Gly	Asp
			165					170					175		
Glu	Lys	Asn	Leu	Met	Arg	Glu	Arg	Ile	Ala	Lys	Lys	Leu	Lys	Lys	Asp
			180				185					190			
Thr	Ser	Ala	Asn	Val	Lys	Ser	Ala	Gly	Glu	Gly	Glu	Val	Glu	Lys	Lys
		195				200					205				
Ser	Val	Ser	Arg	Ser	Glu	Glu	Leu	Arg	Lys	Glu	Ala	Arg	Gln	Leu	Lys
	210				215					220					
Arg	Glu	Leu	Leu	Ala	Ala	Lys	Gln	Lys	Lys	Val	Glu	Asn	Ala	Ala	Lys
225				230						235					240
Gln	Ala	Glu	Lys	Arg	Ser	Glu	Glu	Glu	Glu	Ala	Pro	Pro	Asp	Gly	Ala
			245					250					255		
Val	Ala	Glu	Tyr	Arg	Arg	Glu	Lys	Gln	Lys	Tyr	Glu	Ala	Leu	Arg	Lys
			260				265					270			
Gln	Gln	Ser	Lys	Lys	Gly	Thr	Ser	Arg	Glu	Asp	Gln	Thr	Leu	Ala	Leu
		275				280					285				
Leu	Asn	Gln	Phe	Lys	Ser	Lys	Leu	Thr	Gln	Ala	Ile	Ala	Glu	Thr	Pro
	290				295					300					
Glu	Asn	Asp	Ile	Pro	Glu	Thr	Glu	Val	Glu	Asp	Asp	Glu	Gly	Trp	Met
305				310					315					320	
Ser	His	Val	Leu	Gln	Phe	Glu	Asp	Lys	Ser	Arg	Lys	Val	Lys	Asp	Ala
			325					330					335		
Ser	Met	Gln	Asp	Ser	Asp	Thr	Phe	Glu	Ile	Tyr	Asp	Pro	Arg	Asn	Pro
			340				345					350			
Val	Asn	Lys	Arg	Arg	Arg	Glu	Glu	Ser	Lys	Lys	Leu	Met	Arg	Glu	Lys
		355				360					365				
Lys	Glu	Arg	Arg												
	370														

&lt;210&gt; 568

&lt;211&gt; 1537

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens



&lt;400&gt; 568

```

gccgcgcgcc gatcggtcgt taccgcgagg cgctgggtggc cttcaggctg gacggcgcgg      60
gtcagccctg gttcgccggc ttctgggtct ttgaacagcc gcgatgtcga tcttcacccc      120
caccaaccag atccgcctaa ccaatgtggc cgtggtacgg atgaagcgtg ccgggaagcg      180
cttcgaaatc gcctgctaca aaaacaaggt cgctgggtgg cggagcggcg tggaaaaaga      240
cctcgatgaa gttctgcaga cccactcagt gtttgtaaat gtttctaaag gtcagggttg      300
caaaaaggaa gatctcatca gtgcgtttgg aacagatgac caaactgaaa tctgtaagca      360
gattttgact aaaggagaag ttcaagtatc agataaagaa agacacacac aactggagca      420
gatgtttagg gacattgcaa ctattgtggc agacaaatgt gtgaatcctg aaacaaagag      480
accatacacc gtgatcctta ttgagagagc catgaaggac atccactatt cggtgaaaaac      540
caacaagagt acaaaacagc aggctttgga agtgataaag cagttaaaag agaaaatgaa      600
gatagaacgt gctcacatga agcttcgggt catccttcca gtcaatgaag gcaagaactg      660
aaagaaaagc tcaagccact gatcaaggtc atagaaagtg aagattatgg ccaacagtta      720
gaaatcgat gtctgattga cccgggctgc ttccgagaaa ttgatgagct aataaaaaag      780
gaaactaaag gcaaagggtc tttggaagta ctcaatctga aagatgtaga agaaggagat      840
gagaaatttg aatgacaccc atcaatctct tcacctctaa aacactaaag tgtttccggt      900
tccgacggca ctgtttcatg tctgtggtct gccaaatact tgcttaaaact atttgacatt      960
ttctatcttt gtgttaacag tggacacagc aaggctttcc tacataagta taataatgtg     1020
ggaatgatgt ggttttaatt ataaactggg gtctaaatcc taaagcaaaa ttgaaactcc     1080
aagatgcaaa gtccagagtg gcattttgct actctgtctc atgccttgat agctttccaa     1140
aatgaaagtt acttgangca gctctgtggt gtgaaaagtt atttgtacag tagagtaaga     1200
ttattagggg tatgtctata caacaaaagg ggggggtctt cctaaaaaag aaaacatag     1260
atgcttcatt tctacttaat ggaacttggt ttctgagggt cattatggta tcgtaatgta     1320
aagcttggat gatgttcctg attatgtgag gaacagatat aggaaaattg tgccggaatt     1380
acctttcatt gaacatgctg ccataaatta gggtattttt gggttaaaaa taaaagtcaa     1440
ttatttttaa tttttaaagt ttataatata tattaatata ggtaaaattg tatgtaatca     1500
ataaaaccaa ttttatgttt attaaactta aaaaaaa      1537

```

&lt;210&gt; 569

&lt;211&gt; 210

&lt;212&gt; PRT

&lt;213&gt; Homo Sapiens

&lt;400&gt; 569

```

Ala Ala Arg Arg Ser Val Val Thr Ala Arg Arg Trp Trp Pro Ser Gly
 1          5          10          15
Trp Thr Ala Arg Val Ser Pro Gly Ser Pro Ala Ser Gly Ser Leu Asn
 20          25          30
Ser Arg Asp Val Asp Leu His Pro His Gln Pro Asp Pro Pro Asn Gln
 35          40          45
Cys Gly Arg Gly Thr Asp Glu Ala Cys Arg Glu Ala Leu Arg Asn Arg
 50          55          60
Leu Leu Gln Lys Gln Val Val Gly Trp Arg Ser Gly Val Glu Lys Asp
 65          70          75          80
Leu Asp Glu Val Leu Gln Thr His Ser Val Phe Val Asn Val Ser Lys
 85          90          95
Gly Gln Val Ala Lys Lys Glu Asp Leu Ile Ser Ala Phe Gly Thr Asp
100          105          110
Asp Gln Thr Glu Ile Cys Lys Gln Ile Leu Thr Lys Gly Glu Val Gln
115          120          125
Val Ser Asp Lys Glu Arg His Thr Gln Leu Glu Gln Met Phe Arg Asp
130          135          140
Ile Ala Thr Ile Val Ala Asp Lys Cys Val Asn Pro Glu Thr Lys Arg
145          150          155          160
Pro Tyr Thr Val Ile Leu Ile Glu Arg Ala Met Lys Asp Ile His Tyr

```

165 170 175  
 Ser Val Lys Thr Asn Lys Ser Thr Lys Gln Gln Ala Leu Glu Val Ile  
 180 185 190  
 Lys Gln Leu Lys Glu Lys Met Lys Ile Glu Arg Ala His Met Lys Leu  
 195 200 205  
 Arg Phe  
 210

<210> 570  
 <211> 1211  
 <212> DNA  
 <213> Homo Sapiens

<400> 570  
 accatctttg gaaagggttac aggggtatcac agtatataaac atgtttgcgac tgtcagaagt 60  
 agacattgat gatgacgaaa gaccacataa tccacacaaa ataaaaagct gtgaggtttt 120  
 gtttaatcct tttgatgaca tcattccaag ggaaattaaa aggctgaaaa aagagaaacc 180  
 agaggaggaa gtaaagaaat tgaaacccaa aggcacaaaa aatttttagtt tacttttcatt 240  
 tggagaggaa gctgaggaag aagaggagga agtaaatcga gttagtcaga gcatgaaggg 300  
 caaaagcaaa agtagtcatg acttgcttaa ggatgatcca catctcagtt ctgttccagt 360  
 tgtagaaagt gaaaaaggtg atgcagcaga tttagttgat gatggagaag atgaaagtgc 420  
 agagcatgat gaatatattg atggtgatga aaagaacctg atgagagaaa gaattgccaa 480  
 aaaattaaaa aaggacacaa gtgcgaatgt taaatcagct ggagaaggag aagtggagaa 540  
 gaaatcagtc agccgcagtg aagagctcag aaaagaagca agacaattaa aacgggaact 600  
 cttagcagca gaacaaaaaa aagtagaaaa tgcagcaaaa caagcagaaa aaagaagtga 660  
 agaggaagaa gcccctccag atggtgctgt tgccgaatac agaagagaaa agcaaaagta 720  
 tgaagctctg aggaagcaac agtcaaagaa gggaacttcc cggaagatc agacccttgc 780  
 actgctgaac cagttttaaatt ctaaactcac tcaagcaatt gctgaaacgc ctgaaaatga 840  
 cattctgaa acagaagtag aagatgatga aggatggatg tcacatgtac ttcagtttga 900  
 ggataaaagc agaaaagtga aagatgcaag catgcaagac tcagatacat ttgaaatcta 960  
 tgatcctcgg aatccagtga ataaaagaag gaggaagaa agcaaaaagc tgatgagaga 1020  
 gaaaaaagaa agaagataaa atgagaataa tgataaccag aacttgctgg aaatgtgcct 1080  
 acaatggcct tgtaacagcc attgttccca acagcatcac ttaggggtgt gaaaagaagt 1140  
 atttttgaac ctgttgtctg gttttgaaaa acaattatct tgttttgcaa attgtggaat 1200  
 gatgtaagca a 1211

<210> 571  
 <211> 354  
 <212> PRT  
 <213> Homo Sapiens

<400> 571  
 Pro Ser Leu Glu Arg Leu Gln Gly Tyr Thr Val Tyr Asn Met Leu Arg  
 1 5 10 15  
 Leu Ser Glu Val Asp Ile Asp Asp Asp Glu Arg Pro His Asn Pro His  
 20 25 30  
 Lys Ile Lys Ser Cys Glu Val Leu Phe Asn Pro Phe Asp Asp Ile Ile  
 35 40 45  
 Pro Arg Glu Ile Lys Arg Leu Lys Lys Glu Lys Pro Glu Glu Glu Val  
 50 55 60  
 Lys Lys Leu Lys Pro Lys Gly Thr Lys Asn Phe Ser Leu Leu Ser Phe  
 65 70 75 80  
 Gly Glu Glu Ala Glu Glu Glu Glu Glu Glu Val Asn Arg Val Ser Gln  
 85 90 95  
 Ser Met Lys Gly Lys Ser Lys Ser Ser His Asp Leu Leu Lys Asp Asp

```

      100      105      110
Pro His Leu Ser Ser Val Pro Val Val Glu Ser Glu Lys Gly Asp Ala
      115      120      125
Ala Asp Leu Val Asp Asp Gly Glu Asp Glu Ser Ala Glu His Asp Glu
      130      135      140
Tyr Ile Asp Gly Asp Glu Lys Asn Leu Met Arg Glu Arg Ile Ala Lys
      145      150      155      160
Lys Leu Lys Lys Asp Thr Ser Ala Asn Val Lys Ser Ala Gly Glu Gly
      165      170      175
Glu Val Glu Lys Lys Ser Val Ser Arg Ser Glu Glu Leu Arg Lys Glu
      180      185      190
Ala Arg Gln Leu Lys Arg Glu Leu Leu Ala Ala Glu Gln Lys Lys Val
      195      200      205
Glu Asn Ala Ala Lys Gln Ala Glu Lys Arg Ser Glu Glu Glu Ala
      210      215      220
Pro Pro Asp Gly Ala Val Ala Glu Tyr Arg Arg Glu Lys Gln Lys Tyr
      225      230      235      240
Glu Ala Leu Arg Lys Gln Gln Ser Lys Lys Gly Thr Ser Arg Glu Asp
      245      250      255
Gln Thr Leu Ala Leu Leu Asn Gln Phe Lys Ser Lys Leu Thr Gln Ala
      260      265      270
Ile Ala Glu Thr Pro Glu Asn Asp Ile Pro Glu Thr Glu Val Glu Asp
      275      280      285
Asp Glu Gly Trp Met Ser His Val Leu Gln Phe Glu Asp Lys Ser Arg
      290      295      300
Lys Val Lys Asp Ala Ser Met Gln Asp Ser Asp Thr Phe Glu Ile Tyr
      305      310      315      320
Asp Pro Arg Asn Pro Val Asn Lys Arg Arg Arg Glu Glu Ser Lys Lys
      325      330      335
Leu Met Arg Glu Lys Lys Glu Arg Arg Ile Leu Pro Val Asn Glu Gly
      340      345      350
Lys Asn

```

```

<210> 572
<211> 604
<212> DNA
<213> Homo Sapiens

```

```

<400> 572
ccttcggcaa aaaatttttg tcccaacttt ttgttccatt caaaagggc ttaccttcat      60
tcccttttagc aacagggccc ccaagaagct cccgttcatt cacccttacc ttggccccc      120
ggttggaacc ccaaaggctc ccttacccca aagtgggtgg ttgaataaat cttctcagtt      180
ccctggctcc caaggcccat tgaagaagat tgtacaaggc gtgcctcaag taccctgagt      240
ggaaacagaa gcacctgcct cacttcaagc cgtggctgca cccggagcag agcccgttgc      300
cgagcctggc gctgtcggag ctgtcgggtc agcatgcgga ctactggag aacatcgacg      360
agagcgcggt ggccgagagc agagaggagc ggatgggagg cgcgggcggc gagggcagcg      420
acgacgacac cttcacctga gcccgaccg cttcaggagc ggagacagga ccgggcgagc      480
cctggggcgg cgccgctcc tgcactttct cccctcccc acccggcacc tgggtggcacc      540
gggccaggcc caggcgggtg ctgcagcctg gctggacaga gccaataaa cggatccac      600
agcc      604

```

```

<210> 573
<211> 195
<212> PRT

```

&lt;213&gt; Homo Sapiens

&lt;400&gt; 573

Leu Arg Gln Lys Ile Leu Val Pro Thr Phe Cys Ser Ile Pro Lys Gly  
 1 5 10 15  
 Leu Thr Phe Ile Pro Phe Ser Asn Arg Ala Pro Lys Lys Leu Pro Phe  
 20 25 30  
 Ile His Pro Tyr Leu Gly Pro Gln Val Gly Pro Pro Lys Ala Pro Leu  
 35 40 45  
 Pro Gln Ser Gly Trp Leu Asn Lys Ser Ser Gln Phe Pro Gly Ser Gln  
 50 55 60  
 Gly Pro Leu Lys Lys Ile Val Gln Gly Val Pro Gln Val Pro Arg Val  
 65 70 75 80  
 Glu Thr Glu Ala Pro Ala Ser Leu Gln Ala Val Ala Ala Pro Gly Ala  
 85 90 95  
 Glu Pro Val Ala Glu Pro Gly Ala Val Gly Ala Val Gly Ala Ala Cys  
 100 105 110  
 Gly Leu Thr Gly Glu His Arg Arg Glu Arg Gly Gly Arg Glu Gln Arg  
 115 120 125  
 Gly Ala Asp Gly Arg Arg Gly Arg Arg Gly Gln Arg Arg Arg His Leu  
 130 135 140  
 His Leu Ser Pro His Arg Phe Arg Asp Gly Asp Arg Thr Gly Arg Ala  
 145 150 155 160  
 Leu Gly Arg Arg Pro Leu Leu His Phe Leu Pro Ser Pro Thr Arg His  
 165 170 175  
 Leu Val Ala Pro Gly Gln Ala Gln Ala Gly Ala Ala Ala Trp Leu Asp  
 180 185 190  
 Arg Ala Gln  
 195

&lt;210&gt; 574

&lt;211&gt; 742

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 574

cccaccaggg cccctcgat gcagagacag aggtcgggtgc tgaccgctgc acgtcgactg 60  
 cctaccagga gcagaggccc caggtggagc aagttggcaa agtcgctcct ctctccccag 120  
 ggctgccggc aatggggggg cctggccccg gccctgtga ggaccccgcg ggtgctgggg 180  
 gagcaggtgc agggggctcc gagcccctgg tgactgtcac cgtgcagtgc gccttcacag 240  
 tggccctgag ggcaggaaga ggagccgacc tgtccagcct gcgggcactg ctgggccaag 300  
 ccttccttca ccaggcccag cttgggcaat tcagttacct agccccaggt gaggacgggc 360  
 actgggtccc catccccgag gaggagtcgc tgcagagggc ctggcaggac gcagctgcct 420  
 gccccagggg gctgcagctg cagtgcaggg gagccggggg tcggccgggtc ctttaccagg 480  
 tgggtggcca gcacagatac tccgcccagg ggccagagga cctgggcttc cgacaggggg 540  
 acacggtgga cgtcctgtgt gaagtggacc aggcattggc ggagggccac tgtgacggcc 600  
 gcatcggtcat cttccccaaag tgcttcgtgg tcccgcggc ccctcggtatg tcaggagccc 660  
 ccggccgcct gcccgcgatcc cagcaggag atcagcccta atgatgctgt gtccatgatg 720  
 cttttaataa aaacaacccc ca 742

&lt;210&gt; 575

&lt;211&gt; 232

&lt;212&gt; PRT

&lt;213&gt; Homo Sapiens

<400> 575  
 His Gln Gly Pro Leu Asp Ala Glu Thr Glu Val Gly Ala Asp Arg Cys  
 1 5 10 15  
 Thr Ser Thr Ala Tyr Gln Glu Gln Arg Pro Gln Val Glu Gln Val Gly  
 20 25 30  
 Lys Val Ala Pro Leu Ser Pro Gly Leu Pro Ala Met Gly Gly Pro Gly  
 35 40 45  
 Pro Gly Pro Cys Glu Asp Pro Ala Gly Ala Gly Gly Ala Gly Ala Gly  
 50 55 60  
 Gly Ser Glu Pro Leu Val Thr Val Thr Val Gln Cys Ala Phe Thr Val  
 65 70 75 80  
 Ala Leu Arg Ala Gly Arg Gly Ala Asp Leu Ser Ser Leu Arg Ala Leu  
 85 90 95  
 Leu Gly Gln Ala Phe Leu His Gln Ala Gln Leu Gly Gln Phe Ser Tyr  
 100 105 110  
 Leu Ala Pro Gly Glu Asp Gly His Trp Val Pro Ile Pro Glu Glu Glu  
 115 120 125  
 Ser Leu Gln Arg Ala Trp Gln Asp Ala Ala Ala Cys Pro Arg Gly Leu  
 130 135 140  
 Gln Leu Gln Cys Arg Gly Ala Gly Gly Arg Pro Val Leu Tyr Gln Val  
 145 150 155 160  
 Val Ala Gln His Arg Tyr Ser Ala Gln Gly Pro Glu Asp Leu Gly Phe  
 165 170 175  
 Arg Gln Gly Asp Thr Val Asp Val Leu Cys Glu Val Asp Gln Ala Trp  
 180 185 190  
 Leu Glu Gly His Cys Asp Gly Arg Ile Gly Ile Phe Pro Lys Cys Phe  
 195 200 205  
 Val Val Pro Ala Gly Pro Arg Met Ser Gly Ala Pro Gly Arg Leu Pro  
 210 215 220  
 Arg Ser Gln Gln Gly Asp Gln Pro  
 225 230

<210> 576  
 <211> 1087  
 <212> DNA  
 <213> Homo Sapiens

<400> 576  
 aagatgatgc ctagttaaatt acagaagaac aaacagagac tgcgaaacga tcctctcaat 60  
 caaaataagg gtaaaccaga cttgaatata acattgccaa ttagacaaac agcatcaatt 120  
 ttcaaacacac cggtaaccaa agtcacaaat catcctagta ataaagtga atcagaccca 180  
 caacgaatga atgaacagcc acgtcagctt ttctgggaga agaggctaca aggacttagt 240  
 gcatcagatg taacagaaca aattataaaa accatggaac taccacaaagg tcttcaagga 300  
 gttggtccag gtatgaatga tgagaccctt ttatctgctg ttgccagtgc tttgcacaca 360  
 agctctgctg caatcacagg gcaagtctcc gctgctgtgg aaaagaaccc tgctgtttgg 420  
 cttaacacat ctcaaccct ctgcaaagct tttattgtca cagatgaaga catcaggaaa 480  
 caggaagagc gactacagca agtacgcaag aaattggaag aagcactgat ggcagacatc 540  
 ttgtcgcgag ctgctgatac agaagagatg gatattgaaa tggacagtgg agatgaagcc 600  
 taagaatatg atcaggtaac tttcgaccga ctttcccccag gagaaaattc ctagaaattg 660  
 aacaaaaatg tttccactgg cttttgcctg taagaaaaaa aatgtaccgc agcacataga 720  
 gctttttaat agcactaac aatgcctttt tagatgtatt tttgatgtat atatctatta 780  
 ttcaaaaaat catgtttatt ttgagtccta ggacttaaaa ttagtctttt gtaatatcaa 840  
 gcaggaccct aagatgaagc tgagcttttg atgccaggtg caatttactg gaaatgtagc 900  
 acttacgtaa aacatttgtt tccccacag ttttaataag aacagatcag gaattctaaa 960  
 taaatttccc agttaaagat tattgtgact tcaactgtata taaacatatt tttatacttt 1020

attgaaaggg gacacctgta cattcttcca tcgtcactgt aaagacaaat aaatgattat 1080  
attcaca 1087

<210> 577  
<211> 200  
<212> PRT  
<213> Homo Sapiens

<400> 577  
Lys Met Met Pro Ser Lys Leu Gln Lys Asn Lys Gln Arg Leu Arg Asn  
1 5 10 15  
Asp Pro Leu Asn Gln Asn Lys Gly Lys Pro Asp Leu Asn Thr Thr Leu  
20 25 30  
Pro Ile Arg Gln Thr Ala Ser Ile Phe Lys Gln Pro Val Thr Lys Val  
35 40 45  
Thr Asn His Pro Ser Asn Lys Val Lys Ser Asp Pro Gln Arg Met Asn  
50 55 60  
Glu Gln Pro Arg Gln Leu Phe Trp Glu Lys Arg Leu Gln Gly Leu Ser  
65 70 75 80  
Ala Ser Asp Val Thr Glu Gln Ile Ile Lys Thr Met Glu Leu Pro Lys  
85 90 95  
Gly Leu Gln Gly Val Gly Pro Gly Ser Asn Asp Glu Thr Leu Leu Ser  
100 105 110  
Ala Val Ala Ser Ala Leu His Thr Ser Ser Ala Pro Ile Thr Gly Gln  
115 120 125  
Val Ser Ala Ala Val Glu Lys Asn Pro Ala Val Trp Leu Asn Thr Ser  
130 135 140  
Gln Pro Leu Cys Lys Ala Phe Ile Val Thr Asp Glu Asp Ile Arg Lys  
145 150 155 160  
Gln Glu Glu Arg Val Gln Gln Val Arg Lys Lys Leu Glu Glu Ala Leu  
165 170 175  
Met Ala Asp Ile Leu Ser Arg Ala Ala Asp Thr Glu Glu Met Asp Ile  
180 185 190  
Glu Met Asp Ser Gly Asp Glu Ala  
195 200

<210> 578  
<211> 2569  
<212> DNA  
<213> Homo Sapiens

<400> 578  
aagagtaaaa gctactcttt cagagagaaa aataggagat tcatgtgaca aagatttgcc 60  
tctgaaattt tgtgagttcc cacagaagac tataatgcct ggatttaaaa caactgtata 120  
tgtttctcat ataaatgacc tttcagactt ttatgttcaa ctaatagaag atgaagctga 180  
aattagtcac ctttcagaga gattaaacag tggtaaaaca aggcccgaat attatgtagg 240  
tccacctttg caaagaggag atatgatatg tgctgttttc ccagaagata atttatggta 300  
tcgtgctgtg atcaaggagc aacaacccaa tgaccttctc tctgtgcagt ttatagatta 360  
tggcaatgtt tctgtggttc atactaacia aataggtagg cttgaccttg ttaatgcaat 420  
attgccgggg ttgtgcattc attgctcctt gcagggattt gaggttcttg acaataaaaa 480  
ttctaagaaa atgatgcatt acttttccca acggaccagc gaggtgcaa taagatgtga 540  
atttggttaa tttaagaca gatgggaagt tattcttgct gatgaacatg ggatcatagc 600  
agatgatatg attagcaggt atgctctcag tgaataatct caagtagaac tttctaccca 660  
agtaattaaa agtgccagtt caaagtctgt taacaaatca gacattgaca cttcagtatt 720  
tcttaactgg tataatccag aaaaaaaat gataagagct tatgccactg tgatagatgg 780

```

acctgagtag ttttgggtgtc agtttgcgtga tacggagaaa cttcagtggt tagaagtaga 840
agtagacagact gctggagaaac aggttagcaga caggagaaat tgtatcccat gtccttatat 900
tggagatccct tgtatagtaa gatacagaga agatggacat tattataggg cacttatcac 960
taatatattgt gaagattatc ttgtatctgt caggcttgtg gactttggaa acattgaaga 1020
ctgtgtggac ccaaaagcac tctgggcat tccctctgaa cttctgtcgg ttcccatgca 1080
agcctttcca tgttgcctct cagggtttaa catttcagaa ggattatgtt ctcaagagg 1140
aatgactat ttctatgaaa taataacaga agatgtgttg gaaataacaa tactagaaat 1200
cagaaggat gtttgtgata tcccttttagc aattgttgac ttgaaaagca aaggtaaaag 1260
tattaatgag aaaatggaga aatattctaa gactggtatt aaaagtgtc ttccctatga 1320
aatatttgac tcagagataa agcagactct tgggtcctac aatcttgatg taggacttaa 1380
gaaattaagt aataaagctg tacaaaataa aatatatatg gaacaacaga cagatgagct 1440
tgctgaaata actgaaaaag atgtaaacat tattggaacc aaaccaagta acttccgtga 1500
ccctaaaact gataacattt gtgaagggtt tgaaaacccc tgcaaagata aaattgatac 1560
tgagggaactg gaagtggaat tagagtgcga tctggttgac aaagcagagt ttgatgataa 1620
atacctgatt acaggattta acacattact accacatgct aatgaaacaa aggagatact 1680
agaactgaat tcacttgagg tgccgctttc tctgatgat gaatcaaaaag aattcttaga 1740
actggaatct attgagttac agaattctct ggtggtggat gaagaaaaag gggagctaag 1800
cccgtgcca ccgaatgtgc cactctccca agagtgtgtc acaaaaggcg ccatggagct 1860
atttactactg cagcttcctc tcagctgtga agctgagaaa cagccagaac tagaactacc 1920
tacagcccag ctgccttttag atgacaagat ggatcctttg tctttaggag ttagtcagaa 1980
agcacaggaa tccatgtgta ctgaggacat gagaaagtca agttgtgtag aatcttttga 2040
tgaccagcgc aggatgtcat tgcattctaca tggagcagat tgtgatccta aaacacagaa 2100
tgaaatgaat atatgtgaag aagaatttgt agagtataaa aacagggatg ccatttcggc 2160
attgatgcct ttttctctga ggaagaaaagc agtgatggaa gcaagcacia taatggttta 2220
ccagatcata tttcagntca attacagaac acctacactn tgaaagcctt tactgttgga 2280
tctaaatgtg ttgtgtggtc aagtntaaga aacanatggt ctaaatgtga gatttttagaa 2340
acagctgaag aaggnacaag ggttttgaac ctttcaaag gtatggagga gatagtgaac 2400
cctgagaatg tctggaatgn nanacccaaa ttggataaga gtccacctga gaaaagggt 2460
ttggaggtga tggagattta accgtggatn tatagctgtg gccaatcagt cagaagctgc 2520
ccntgaacaa gtggcatctt acgcagacca acagagtatt tgagaaaat 2569

```

&lt;210&gt; 579

&lt;211&gt; 752

&lt;212&gt; PRT

&lt;213&gt; Homo Sapiens

&lt;400&gt; 579

```

Arg Val Lys Ala Thr Leu Ser Glu Arg Lys Ile Gly Asp Ser Cys Asp
1          5          10          15
Lys Asp Leu Pro Leu Lys Phe Cys Glu Phe Pro Gln Lys Thr Ile Met
20          25          30
Pro Gly Phe Lys Thr Thr Val Tyr Val Ser His Ile Asn Asp Leu Ser
35          40          45
Asp Phe Tyr Val Gln Leu Ile Glu Asp Glu Ala Glu Ile Ser His Leu
50          55          60
Ser Glu Arg Leu Asn Ser Val Lys Thr Arg Pro Glu Tyr Tyr Val Gly
65          70          75          80
Pro Pro Leu Gln Arg Gly Asp Met Ile Cys Ala Val Phe Pro Glu Asp
85          90          95
Asn Leu Trp Tyr Arg Ala Val Ile Lys Glu Gln Gln Pro Asn Asp Leu
100         105         110
Leu Ser Val Gln Phe Ile Asp Tyr Gly Asn Val Ser Val Val His Thr
115         120         125
Asn Lys Ile Gly Arg Leu Asp Leu Val Asn Ala Ile Leu Pro Gly Leu
130         135         140

```

Cys Ile His Cys Ser Leu Gln Gly Phe Glu Val Pro Asp Asn Lys Asn  
 145 150 155 160  
 Ser Lys Lys Met Met His Tyr Phe Ser Gln Arg Thr Ser Glu Ala Ala  
 165 170 175  
 Ile Arg Cys Glu Phe Val Lys Phe Gln Asp Arg Trp Glu Val Ile Leu  
 180 185 190  
 Ala Asp Glu His Gly Ile Ile Ala Asp Asp Met Ile Ser Arg Tyr Ala  
 195 200 205  
 Leu Ser Glu Lys Ser Gln Val Glu Leu Ser Thr Gln Val Ile Lys Ser  
 210 215 220  
 Ala Ser Ser Lys Ser Val Asn Lys Ser Asp Ile Asp Thr Ser Val Phe  
 225 230 235 240  
 Leu Asn Trp Tyr Asn Pro Glu Lys Lys Met Ile Arg Ala Tyr Ala Thr  
 245 250 255  
 Val Ile Asp Gly Pro Glu Tyr Phe Trp Cys Gln Phe Ala Asp Thr Glu  
 260 265 270  
 Lys Leu Gln Cys Leu Glu Val Glu Val Gln Thr Ala Gly Glu Gln Val  
 275 280 285  
 Ala Asp Arg Arg Asn Cys Ile Pro Cys Pro Tyr Ile Gly Asp Pro Cys  
 290 295 300  
 Ile Val Arg Tyr Arg Glu Asp Gly His Tyr Tyr Arg Ala Leu Ile Thr  
 305 310 315 320  
 Asn Ile Cys Glu Asp Tyr Leu Val Ser Val Arg Leu Val Asp Phe Gly  
 325 330 335  
 Asn Ile Glu Asp Cys Val Asp Pro Lys Ala Leu Trp Ala Ile Pro Ser  
 340 345 350  
 Glu Leu Leu Ser Val Pro Met Gln Ala Phe Pro Cys Cys Leu Ser Gly  
 355 360 365  
 Phe Asn Ile Ser Glu Gly Leu Cys Ser Gln Glu Gly Asn Asp Tyr Phe  
 370 375 380  
 Tyr Glu Ile Ile Thr Glu Asp Val Leu Glu Ile Thr Ile Leu Glu Ile  
 385 390 395 400  
 Arg Arg Asp Val Cys Asp Ile Pro Leu Ala Ile Val Asp Leu Lys Ser  
 405 410 415  
 Lys Gly Lys Ser Ile Asn Glu Lys Met Glu Lys Tyr Ser Lys Thr Gly  
 420 425 430  
 Ile Lys Ser Ala Leu Pro Tyr Glu Asn Ile Asp Ser Glu Ile Lys Gln  
 435 440 445  
 Thr Leu Gly Ser Tyr Asn Leu Asp Val Gly Leu Lys Lys Leu Ser Asn  
 450 455 460  
 Lys Ala Val Gln Asn Lys Ile Tyr Met Glu Gln Gln Thr Asp Glu Leu  
 465 470 475 480  
 Ala Glu Ile Thr Glu Lys Asp Val Asn Ile Ile Gly Thr Lys Pro Ser  
 485 490 495  
 Asn Phe Arg Asp Pro Lys Thr Asp Asn Ile Cys Glu Gly Phe Glu Asn  
 500 505 510  
 Pro Cys Lys Asp Lys Ile Asp Thr Glu Glu Leu Glu Gly Glu Leu Glu  
 515 520 525  
 Cys His Leu Val Asp Lys Ala Glu Phe Asp Asp Lys Tyr Leu Ile Thr  
 530 535 540  
 Gly Phe Asn Thr Leu Leu Pro His Ala Asn Glu Thr Lys Glu Ile Leu  
 545 550 555 560  
 Glu Leu Asn Ser Leu Glu Val Pro Leu Ser Pro Asp Asp Glu Ser Lys  
 565 570 575  
 Glu Phe Leu Glu Leu Glu Ser Ile Glu Leu Gln Asn Ser Leu Val Val



580	585	590
Asp Glu Glu Lys Gly Glu Leu Ser Pro Val Pro Pro Asn Val Pro Leu		
595	600	605
Ser Gln Glu Cys Val Thr Lys Gly Ala Met Glu Leu Phe Thr Leu Gln		
610	615	620
Leu Pro Leu Ser Cys Glu Ala Glu Lys Gln Pro Glu Leu Glu Leu Pro		
625	630	635
Thr Ala Gln Leu Pro Leu Asp Asp Lys Met Asp Pro Leu Ser Leu Gly		
645	650	655
Val Ser Gln Lys Ala Gln Glu Ser Met Cys Thr Glu Asp Met Arg Lys		
660	665	670
Ser Ser Cys Val Glu Ser Phe Asp Asp Gln Arg Arg Met Ser Leu His		
675	680	685
Leu His Gly Ala Asp Cys Asp Pro Lys Thr Gln Asn Glu Met Asn Ile		
690	695	700
Cys Glu Glu Glu Phe Val Glu Tyr Lys Asn Arg Asp Ala Ile Ser Ala		
705	710	715
Leu Met Pro Phe Ser Leu Arg Lys Lys Ala Val Met Glu Ala Ser Thr		
725	730	735
Ile Met Val Tyr Gln Ile Ile Phe Gln Asn Tyr Arg Thr Pro Thr Leu		
740	745	750

<210> 580  
 <211> 2077  
 <212> DNA  
 <213> Homo Sapiens

<400> 580

ctgttgattt	tttggagaaa	tatgggagaa	acagtggaa	atttttatga	catttttagg	60
aaatcacctg	gcttggttgg	tagtcccaca	ctgactttcc	ttatgataat	tctacagatg	120
gaggtgactc	gagcagtgat	gaggataaag	aataacatga	aactcctgtg	gaagtagaac	180
tcatgactca	ggttgaccaa	gaggatatca	ctcttcagag	tggcagagat	gaactaaatg	240
aggagctcat	tcaggaagaa	agctctgaag	acgaaggaga	atatgaagag	gtagaaaaag	300
atcaggattc	tgttggtgaa	atgaaggatg	aagggggaag	gacttaaatt	atcctgatac	360
taccattgac	ttgtctcacc	ttcaacccca	aaggtccatc	cagaaattgg	cttcaaaaga	420
ggaatcttct	aattctagt	acagtaaattc	acagagccgg	agacatttgt	cagccaagga	480
aagaagggaa	atgaaaaaga	aaaaacttcc	aagtgactca	ggagatttag	aagcgttaga	540
gggaaaggat	aaagaaaaag	aaagtactgt	acacattgaa	actcatcaga	acacaagcaa	600
aaatgttgcg	gctgtgcagc	caatgaaacg	aggacaaaag	agtaaaatga	aaaaaatgaa	660
agaaaaatac	aaagaccagg	atgaagaaga	ccgtgaactt	atcatgaagt	tgctggggtc	720
tgacaggttca	aacaaagaag	aaaaagggaa	gaagggggaag	aaaggaaaaa	caaaggacga	780
acctgtgaag	aaacagcccc	agaaacctag	aggtggacag	aggttctctg	acaacattaa	840
gaaagaaact	ccgttccttg	aggttataac	tcatgagtta	caagactttg	ctgtagatga	900
tccacatgat	gacaaggaag	agcaagatct	ggatcaacag	ggaaatgagg	aaaacctatt	960
tgattctttg	acaggccagc	cacatcctga	agatgtacta	ctgtttgcca	ttccaatatg	1020
tgcccccttac	accaccatga	caaactacaa	atataaagt	aaacttactc	ctggagtgc	1080
gaaaaaggga	aaagctgcaa	aaacagcctt	gaatagtttc	atgcattcca	aagaagcaac	1140
agcaagagaa	aaagacttat	tccgcagcgt	aaaggacaca	gatttatcaa	gaaacattcc	1200
tggcaaaagt	aaaagtgtct	gcacccaatc	ttctgaacgt	aaaaaggaaa	tagctgaaat	1260
gaaatttcaa	aatatttgag	aagagccaat	tttatagcct	tttggaggtt	caaagatgaa	1320
agcaccatgt	atcaggattt	ccgcattata	aaaatgaact	aaacattgcc	ttgctatatt	1380
cacaaaaagg	acttaattct	tgtttttttc	ccagttttat	atagaggaaa	cactgtctat	1440
gataggattt	ccaaaagtat	ttgtggacag	ttaaagtcta	attatatata	tctgtagtta	1500
ttctacattt	tcttgaaatt	tgggagggtta	ataccaagta	ttcatttcat	gatgtaaaga	1560
aactgaacag	tgaagtggct	tgattgctta	aactattgac	ttggtaagtc	tactgtatat	1620

```

aacatctaata atatatatta caggccaaat gaactaaaca ttgccttgct atattcacca 1680
aaaggactta attcttggtt ttttcccagt tttatataga ggaaacacta tgataggatt 1740
tcctaaagta tttgtggaca gttaaatgct aattatatac atctgtagtt attctacatt 1800
ttcttgaaat ttgagagggt aataccaagt attcatttca tgatgtaaaag aaactgaaca 1860
gtgaagtggc ttgattgctt aaactattga cttggtaagt ctactgtata taacatctaa 1920
tatatatata ttataggcca gctacaagggt gtttaaatat ttaggattgt gtcttgaaaa 1980
ctaagtattg gagtggattt tcttctgctt tcattgatac ttgtcagaaa aaaatattag 2040
acccaaatgt aaaatataag taataattct catgaaa 2077

```

<210> 581  
 <211> 312  
 <212> PRT  
 <213> Homo Sapiens

<400> 581

Arg	Gly	Arg	Asp	Leu	Asn	Tyr	Pro	Asp	Thr	Thr	Ile	Asp	Leu	Ser	His
1				5					10					15	
Leu	Gln	Pro	Gln	Arg	Ser	Ile	Gln	Lys	Leu	Ala	Ser	Lys	Glu	Glu	Ser
			20					25					30		
Ser	Asn	Ser	Ser	Asp	Ser	Lys	Ser	Gln	Ser	Arg	Arg	His	Leu	Ser	Ala
		35					40					45			
Lys	Glu	Arg	Arg	Glu	Met	Lys	Lys	Lys	Leu	Pro	Ser	Asp	Ser	Gly	
	50					55				60					
Asp	Leu	Glu	Ala	Leu	Glu	Gly	Lys	Asp	Lys	Glu	Lys	Glu	Ser	Thr	Val
65					70					75				80	
His	Ile	Glu	Thr	His	Gln	Asn	Thr	Ser	Lys	Asn	Val	Ala	Ala	Val	Gln
				85					90					95	
Pro	Met	Lys	Arg	Gly	Gln	Lys	Ser	Lys	Met	Lys	Lys	Met	Lys	Glu	Lys
			100					105					110		
Tyr	Lys	Asp	Gln	Asp	Glu	Glu	Asp	Arg	Glu	Leu	Ile	Met	Lys	Leu	Leu
		115					120					125			
Gly	Ser	Ala	Gly	Ser	Asn	Lys	Glu	Glu	Lys	Gly	Lys	Lys	Gly	Lys	Lys
		130				135					140				
Gly	Lys	Thr	Lys	Asp	Glu	Pro	Val	Lys	Lys	Gln	Pro	Gln	Lys	Pro	Arg
145					150					155				160	
Gly	Gly	Gln	Arg	Val	Ser	Asp	Asn	Ile	Lys	Lys	Glu	Thr	Pro	Phe	Leu
				165					170					175	
Glu	Val	Ile	Thr	His	Glu	Leu	Gln	Asp	Phe	Ala	Val	Asp	Asp	Pro	His
			180					185					190		
Asp	Asp	Lys	Glu	Glu	Gln	Asp	Leu	Asp	Gln	Gln	Gly	Asn	Glu	Glu	Asn
		195					200					205			
Leu	Phe	Asp	Ser	Leu	Thr	Gly	Gln	Pro	His	Pro	Glu	Asp	Val	Leu	Leu
		210				215					220				
Phe	Ala	Ile	Pro	Ile	Cys	Ala	Pro	Tyr	Thr	Thr	Met	Thr	Asn	Tyr	Lys
225					230					235				240	
Tyr	Lys	Val	Lys	Leu	Thr	Pro	Gly	Val	Gln	Lys	Lys	Gly	Lys	Ala	Ala
				245					250					255	
Lys	Thr	Ala	Leu	Asn	Ser	Phe	Met	His	Ser	Lys	Glu	Ala	Thr	Ala	Arg
			260				265						270		
Glu	Lys	Asp	Leu	Phe	Arg	Ser	Val	Lys	Asp	Thr	Asp	Leu	Ser	Arg	Asn
		275					280					285			
Ile	Pro	Gly	Lys	Val	Lys	Ser	Val	Cys	Thr	Gln	Ser	Ser	Glu	Arg	Lys
		290				295					300				
Lys	Glu	Ile	Ala	Glu	Met	Lys	Phe								
305						310									

&lt;210&gt; 582

&lt;211&gt; 3309

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 582

```

cgagaccga gacccgaggc ggaggcggac cgagagccgg ccatgtcggg ggtgggggtg      60
gacgtgggct cgagagctg ctacatcgcg gtagcccggg ccgggggcat cgagaccatc      120
gccaatgagt tcagcgaccg gtgcaccccg tcagtcatat catttggtac aaaaaataga      180
acaatcggag ttgcagccaa aaatcagcaa atcactcatg caaacaatac ggtgtctaac      240
ttcaaaagat ttcattggccg agcattcaat gaccccttca ttcaaaagga gaaggaaaac      300
ttgagttacg atttggttcc attgaaaaat ggtggagttg gaataaaggt aatgtacatg      360
ggtgaagaac atctatttag tgtggagcag ataacagcca tgttgttgac taagctgaag      420
gaaactgctg aaaacagcct caagaaacca gtaacagatt gtgttatttc agtcccctcc      480
ttctttacag atgctgagag gcgatctgtg ttagatgtcg cacagattgt tggcctaaac      540
tgtttaagac ttatgaatga catgacagct gttgctttga attacggaat ttataagcag      600
gatctcccaa gcctggatga gaaacctcgg atagtgggtt ttgttgatat gggacattca      660
gcttttcaag tgtctgcttg tgcctttaac aagggaaaat tgaaggtagt gggaacagct      720
tttgatcctt tcttaggagg aaaaaacttc gatgaaaagt tagtggaaca tttttgtgca      780
gaatttaaaa ctaagtacaa gttggatgca aaatccaaa tacgagcact cctacgtctg      840
tatcaggaat gtgaaaaact gaaaaagcta atgagctcta acagcacaga ccttccactg      900
aatatcgaat gctttatgaa tgataaagat gtttccggaa agatgaacag gtcacaattt      960
gaagaactct gtgctgaact tctgcaaaag atagaagtac cctttattc actgttgaa      1020
caaaactcat tcaaaagtag agatgtgagt gcagttgaga ttgttgaggg cgctacacga      1080
attccagctg tgaaggaaaag aattgccaaa ttctttggaa aagatattag cacaacactc      1140
aatgcagatg aagcagtagc cagaggatgt gcattacagt gtgcaatact ttccccggca      1200
tttaaagtta gagaattttc cgtcacagat gcagttcctt ttccaatata tctgatctgg      1260
aaccatgatt cagaagatac tgaagggtgt catgaagtct ttagtcgaaa ccatgctgct      1320
cctttctcca aagttctcac ctttctgaga agggggcctt ttgagctaga agctttctat      1380
tctgatcccc aaggagtctc atatccagaa gcaaaaatag gccgctttgt agttcagaat      1440
gtttctgcac agaaagatgg agaaaaatct agagtaaaag tcaaagtgcg agtcaacacc      1500
catggcattt tcaccatctc tacggcatct atggtggaga aagtcccaac tgaggagaat      1560
gaaatgtctt ctgaagctga catggagtgt ctgaatcaga gaccaccaga aaaccagac      1620
actgataaaa atgtccagca agacaacagt gaagctggaa cacagcccca ggtacaaact      1680
gatgctcaac aaacctcaca gtctccccct tcacctgaac ttacctcaga agaaaacaaa      1740
atcccagatg ctgacaaagc aaatgaaaaa aaagttgacc agcctccaga agctaaaaag      1800
cccaaaataa aggtggtgaa tgttgagctg cctattgaag ccaacttggg ctggcagtta      1860
gggaaagacc ttcttaacat gtatatagag acagagggtg agatgataat gcaagataaa      1920
ttggaaaaag aaaggaatga tgctaaaaat gcagttgagg aatatgtgta tgagttcaga      1980
gacaagctgt gtggaccata tgaaaaatct atatgtgagc aggatcatca aaattttttg      2040
agactcctca cagaaactga agactggctg tatgaagaag gagaggacca agctaaacaa      2100
gcatatgttg acaagtggg aagaattaatg aaaattggca ctccagttaa agttcggttt      2160
caggaagctg aagaacggcc aaaaatgttt gaagaactag gacagaggct gcagcattat      2220
gccaagatag cagctgactt cagaaataag gatgagaaat acaaccatat tgatgagctc      2280
gaaatgaaaa aagtggagaa gtctgttaat gaagtgtagg aatggatgaa taatgtcatg      2340
aatgctcagg ctaaaaagag tcttgatcag gatccagttg tacgtgctca ggaaattaaa      2400
acaaaaatca aggaattgaa caacacatgt gaacctgtg taacacaacc gaaacaaaaa      2460
attgaatcac ccaaactgga aagaactcca aatggcccaa atattgataa aaaggaagaa      2520
gatttagaag acaaaaacaa ttttgggtgt gaacctccac atcagaatgg tgaatgttac      2580
cctaatagaga aaaattctgt taatatggac ttggactaga taaccttaaa ttggcctatt      2640
ccttcaatta ataaaaatatt ttggccatag tatgtgactc tacataacat actgaaacta      2700
tttatatttt cttttttaag gatatttaga aattttgtgt attatatgga aaaagaaaaa      2760
aagcttaagt ctgtagtctt tatgatccta aaagggaaaa ttgccttggg aactttcaga      2820
ttcctgtgga attgtgaatt catactaagc tttctgtgca gtctcaccat ttgcatcact      2880
gaggatgaaa ctgacttttg tcttttggag aaaaaaaact gtactgcttg ttcaagaggg      2940

```

```

ctgtgattaa aatctttaag catttggtcc tgccaaggta gttttcttgc attttgctct 3000
ccattcagca tgtgtgtggg tgtggatgtt tataaacaag actaagtctg acttcataag 3060
ggctttctaa aaccatttct gtccaagaga aaatgacttt ttgctttgat attaaaaatt 3120
caatgagtaa aacaaaagct agtcaaagt gttagcagca tgcagaacaa aaacttttaa 3180
ctttctctct cactatacag tatattgtca tgtgaaagtg tggaatggaa gaaatgtcga 3240
tcctgttgta actgattgtg aacactttta tgagctttaa aataaagttc atcttatggt 3300
gtcatttct 3309

```

&lt;210&gt; 583

&lt;211&gt; 872

&lt;212&gt; PRT

&lt;213&gt; Homo Sapiens

&lt;400&gt; 583

```

Arg Arg Pro Arg Pro Glu Ala Glu Ala Asp Arg Glu Pro Ala Met Ser
 1           5           10           15
Val Val Gly Leu Asp Val Gly Ser Gln Ser Cys Tyr Ile Ala Val Ala
      20           25           30
Arg Ala Gly Gly Ile Glu Thr Ile Ala Asn Glu Phe Ser Asp Arg Cys
      35           40           45
Thr Pro Ser Val Ile Ser Phe Gly Ser Lys Asn Arg Thr Ile Gly Val
      50           55           60
Ala Ala Lys Asn Gln Gln Ile Thr His Ala Asn Asn Thr Val Ser Asn
65           70           75           80
Phe Lys Arg Phe His Gly Arg Ala Phe Asn Asp Pro Phe Ile Gln Lys
      85           90           95
Glu Lys Glu Asn Leu Ser Tyr Asp Leu Val Pro Leu Lys Asn Gly Gly
      100          105          110
Val Gly Ile Lys Val Met Tyr Met Gly Glu Glu His Leu Phe Ser Val
      115          120          125
Glu Gln Ile Thr Ala Met Leu Leu Thr Lys Leu Lys Glu Thr Ala Glu
      130          135          140
Asn Ser Leu Lys Lys Pro Val Thr Asp Cys Val Ile Ser Val Pro Ser
145           150           155           160
Phe Phe Thr Asp Ala Glu Arg Arg Ser Val Leu Asp Ala Ala Gln Ile
      165          170          175
Val Gly Leu Asn Cys Leu Arg Leu Met Asn Asp Met Thr Ala Val Ala
      180          185          190
Leu Asn Tyr Gly Ile Tyr Lys Gln Asp Leu Pro Ser Leu Asp Glu Lys
      195          200          205
Pro Arg Ile Val Val Phe Val Asp Met Gly His Ser Ala Phe Gln Val
      210          215          220
Ser Ala Cys Ala Phe Asn Lys Gly Lys Leu Lys Val Leu Gly Thr Ala
225           230           235           240
Phe Asp Pro Phe Leu Gly Gly Lys Asn Phe Asp Glu Lys Leu Val Glu
      245          250          255
His Phe Cys Ala Glu Phe Lys Thr Lys Tyr Lys Leu Asp Ala Lys Ser
      260          265          270
Lys Ile Arg Ala Leu Leu Arg Leu Tyr Gln Glu Cys Glu Lys Leu Lys
      275          280          285
Lys Leu Met Ser Ser Asn Ser Thr Asp Leu Pro Leu Asn Ile Glu Cys
      290          295          300
Phe Met Asn Asp Lys Asp Val Ser Gly Lys Met Asn Arg Ser Gln Phe
305           310           315           320
Glu Glu Leu Cys Ala Glu Leu Leu Gln Lys Ile Glu Val Pro Leu Tyr

```

-312-

Val Asn Glu Val Met Glu Trp Met Asn Asn Val Met Asn Ala Gln Ala  
 770 775 780  
 Lys Lys Ser Leu Asp Gln Asp Pro Val Val Arg Ala Gln Glu Ile Lys  
 785 790 795 800  
 Thr Lys Ile Lys Glu Leu Asn Asn Thr Cys Glu Pro Val Val Thr Gln  
 805 810 815  
 Pro Lys Pro Lys Ile Glu Ser Pro Lys Leu Glu Arg Thr Pro Asn Gly  
 820 825 830  
 Pro Asn Ile Asp Lys Lys Glu Glu Asp Leu Glu Asp Lys Asn Asn Phe  
 835 840 845  
 Gly Ala Glu Pro Pro His Gln Asn Gly Glu Cys Tyr Pro Asn Glu Lys  
 850 855 860  
 Asn Ser Val Asn Met Asp Leu Asp  
 865 870

<210> 584  
 <211> 2918  
 <212> DNA  
 <213> Homo Sapiens

<400> 584

ataactggag	ctcgcgcgcc	tgcaggtcga	cactagtggg	tccaaagaat	tcggcacgag	60
gtgacgacaa	cagggacaag	gactccgaga	agaccaagag	gtgggtccaag	cccaggaagc	120
gctccctgat	ggagatggag	gggaaggagg	atgcccttta	aggtgctgaa	gtgcatgtac	180
tgtggacact	cctttgagtc	cttgacaggac	ctcagcgtcc	acatgatcaa	aaccaagcat	240
taccagaaag	tgccctctgaa	ggagccagtg	ccagccatca	ccaaactggt	cccctccacc	300
aaaaagcggg	cgcttcagga	cctggcgccc	ccctgctccc	ctgagccagc	aggaatggcc	360
gcagaggtgg	ccctgagtgga	gtcagccaag	gatcagaaag	cagcgaaccc	gtacgtcacg	420
cccaataacc	gctatggcta	ccagaatggc	gccagctaca	cctggcagtt	tgaggcccgc	480
aaggcgcaga	tcctcaagtg	catggagtg	ggcagctccc	acgacacgct	gcagcagctc	540
accgcccaca	tgatgggtcac	cgggcacttc	ctgaaagtga	ccacctcggc	ttctaagaag	600
ggcaagcag	tggtgctgga	ccctgtggtg	gaagagaaga	tccagtccat	cccactaccg	660
cccaccaccc	acacgcggct	gccggcctcc	agcatcaaaa	agcagcccga	ctctcccgcg	720
gggtccacga	cttctgaaga	aaagaaagag	ccagagaagg	agaagccgcc	tgtggctggc	780
gacgcggaga	agatcaagga	ggagagtgg	gacagcttgg	agaaatttga	gcccagcacc	840
ctgtaccctg	acctgctgga	ggaggacctg	gacgacagcc	ccaagggagg	gctggacatt	900
ctcaagctcc	tggagaatac	cgtctccacg	gccattagca	aagctcagaa	tgggtgcgcc	960
tcattggggtg	gctaccccag	catccatgca	gcctaccagc	tcccggggac	cgtgaagcca	1020
ctgcggcg	ccgtgcagag	cgtgcaggtg	cagccgtcct	atgctggcgg	cgtgaagtcg	1080
ctgtcttccg	ccgagcacaa	cgccctcctg	cactccccag	ggagcctcac	gccccaccg	1140
cacaagagca	acgtgtctgc	catggaggag	ctggtggaga	aggtcacggg	caaggtcaac	1200
atcaagaagg	aggagagacc	ccctgagaag	gagaagagct	ccctggccaa	ggctgcgtcc	1260
cccatagcaa	aagagaataa	agatttcccg	aaaacggagg	aagtcagcgg	caaaccacag	1320
aagaagggcc	ctgaggccga	gacttgggaa	gccaaaaagg	agggaccgct	ggacgttcac	1380
accccaaagt	gcacagagcc	tctcaaagca	aaggtcacca	acggctgtaa	caacctgggg	1440
atcatcatgg	accactcacc	ggagccttcc	ttcatcaacc	cgctgagcgc	tttgagctcc	1500
atcatgaaca	cccacctggg	caaggtgtcc	aagcccgtga	gtccctcgct	ggacctcgctg	1560
gcgatgctgt	acaagatcag	caacagcatg	ctggacaagc	cggtgtaccc	cgccaccctt	1620
gtgaagcagg	ccgatgccat	cgaccgctac	tattatgaaa	acagcgacca	gcccattgac	1680
ttaaaccaagt	ccaagaacaa	gccgctggtg	tccagcgtgg	ctgattcggt	ggcatcacct	1740
ctgcgggaga	gcgcactcat	ggacatctcc	gacatggtga	aaaacctcac	aggccgcctg	1800
acgcccgaagt	cctccacgcc	ctccacagtt	tcagagaagt	ccgatgctga	tggcagcagc	1860
tttgaggagg	cggtggacga	gctgtcaccg	gtccacaaga	ggaagggccg	gcagtccaac	1920
tggaaccgcg	agcaccttct	catcctgcag	gcccagttcg	cctcgagctt	gcgggagacc	1980
acagaaggca	agtacatcat	gtcggacttg	ggcccgagc	agagggtgca	catctcgaag	2040

```

tttactgggc tctccatgac caccatcagc cactggctgg ccaatgtgaa gtaccagttg 2100
aggaggacag ggggaacgaa attcctaaag aacctggaca cagggcaccc tggtttcttt 2160
tgcaacgatt gtgcctctca gttcagaact gttctacat acataagtca tttggagaca 2220
cacttgggct tcagcctgaa ggatctctcc aagctgccac tcaatcagat tcaagaacag 2280
cagaatgttt cgaaagtctt caccaacaaa actctgggcc cactgggggc caccgaggaa 2340
gacttgggct ccacattcca atgtaagctc tgcaaccgga cttttgcgaa gcaagcacgc 2400
agtcaaactg caccttagta agaccacagg caagtctccc gaggaccacc tgatctatgt 2460
gactgagttg gagaaacagt agcgtccagg tatgcaagag accgcggaac attgcactaa 2520
acgtcgtcga gctgcactag gcatggcctg agcctctgaa atcagtcttt cctttgttgc 2580
tggtccgcct ctctggacct tggttttcct acacatattt tgtatattta tatgctttct 2640
gtccgatctg tgcattgtat tttctttttt ccgtgagtca aagtctgacc tttattttca 2700
acatctgttt ttggtgttaa gctatctttt gtaggaaata gtggggcaca ctactcagag 2760
acattattta gcagtaaaga aagacacaaa taacaatgat aaaaagacat cctaaaatgg 2820
tgaagttgcc atgacaataa aggtcataga acctggtagt gtcaaattta accctttgag 2880
gactgtaatt gcatttctgt gcctttcact tgaaaaaa 2918

```

&lt;210&gt; 585

&lt;211&gt; 687

&lt;212&gt; PRT

&lt;213&gt; Homo Sapiens

&lt;400&gt; 585

```

Met Ala Ala Glu Val Ala Leu Ser Glu Ser Ala Lys Asp Gln Lys Ala
 1             5             10             15
Ala Asn Pro Tyr Val Thr Pro Asn Asn Arg Tyr Gly Tyr Gln Asn Gly
      20             25             30
Ala Ser Tyr Thr Trp Gln Phe Glu Ala Arg Lys Ala Gln Ile Leu Lys
      35             40             45
Cys Met Glu Cys Gly Ser Ser His Asp Thr Leu Gln Gln Leu Thr Ala
      50             55             60
His Met Met Val Thr Gly His Phe Leu Lys Val Thr Thr Ser Ala Ser
      65             70             75             80
Lys Lys Gly Lys Gln Leu Val Leu Asp Pro Val Val Glu Glu Lys Ile
      85             90             95
Gln Ser Ile Pro Leu Pro Pro Thr Thr His Thr Arg Leu Pro Ala Ser
      100            105            110
Ser Ile Lys Lys Gln Pro Asp Ser Pro Ala Gly Ser Thr Thr Ser Glu
      115            120            125
Glu Lys Lys Glu Pro Glu Lys Glu Lys Pro Pro Val Ala Gly Asp Ala
      130            135            140
Glu Lys Ile Lys Glu Glu Ser Glu Asp Ser Leu Glu Lys Phe Glu Pro
      145            150            155            160
Ser Thr Leu Tyr Pro Tyr Leu Arg Glu Glu Asp Leu Asp Asp Ser Pro
      165            170            175
Lys Gly Gly Leu Asp Ile Leu Lys Ser Leu Glu Asn Thr Val Ser Thr
      180            185            190
Ala Ile Ser Lys Ala Gln Asn Gly Ala Pro Ser Trp Gly Gly Tyr Pro
      195            200            205
Ser Ile His Ala Ala Tyr Gln Leu Pro Gly Thr Val Lys Pro Leu Pro
      210            215            220
Ala Ala Val Gln Ser Val Gln Val Gln Pro Ser Tyr Ala Gly Gly Val
      225            230            235            240
Lys Ser Leu Ser Ser Ala Glu His Asn Ala Leu Leu His Ser Pro Gly
      245            250            255
Ser Leu Thr Pro Pro Pro His Lys Ser Asn Val Ser Ala Met Glu Glu

```

```

      260      265      270
Leu Val Glu Lys Val Thr Gly Lys Val Asn Ile Lys Lys Glu Glu Arg
      275      280      285
Pro Pro Glu Lys Glu Lys Ser Ser Leu Ala Lys Ala Ala Ser Pro Ile
      290      295      300
Ala Lys Glu Asn Lys Asp Phe Pro Lys Thr Glu Glu Val Ser Gly Lys
305      310      315      320
Pro Gln Lys Lys Gly Pro Glu Ala Glu Thr Trp Glu Ala Lys Lys Glu
      325      330      335
Gly Pro Leu Asp Val His Thr Pro Asn Gly Thr Glu Pro Leu Lys Ala
      340      345      350
Lys Val Thr Asn Gly Cys Asn Asn Leu Gly Ile Ile Met Asp His Ser
      355      360      365
Pro Glu Pro Ser Phe Ile Asn Pro Leu Ser Ala Leu Gln Ser Ile Met
      370      375      380
Asn Thr His Leu Gly Lys Val Ser Lys Pro Val Ser Pro Ser Leu Asp
385      390      395      400
Pro Leu Ala Met Leu Tyr Lys Ile Ser Asn Ser Met Leu Asp Lys Pro
      405      410      415
Val Tyr Pro Ala Thr Pro Val Lys Gln Ala Asp Ala Ile Asp Arg Tyr
      420      425      430
Tyr Tyr Glu Asn Ser Asp Gln Pro Ile Asp Leu Thr Lys Ser Lys Asn
      435      440      445
Lys Pro Leu Val Ser Ser Val Ala Asp Ser Val Ala Ser Pro Leu Arg
      450      455      460
Glu Ser Ala Leu Met Asp Ile Ser Asp Met Val Lys Asn Leu Thr Gly
465      470      475      480
Arg Leu Thr Pro Lys Ser Ser Thr Pro Ser Thr Val Ser Glu Lys Ser
      485      490      495
Asp Ala Asp Gly Ser Ser Phe Glu Glu Ala Leu Asp Glu Leu Ser Pro
      500      505      510
Val His Lys Arg Lys Gly Arg Gln Ser Asn Trp Asn Pro Gln His Leu
      515      520      525
Leu Ile Leu Gln Ala Gln Phe Ala Ser Ser Leu Arg Glu Thr Thr Glu
      530      535      540
Gly Lys Tyr Ile Met Ser Asp Leu Gly Pro Gln Glu Arg Val His Ile
545      550      555      560
Ser Lys Phe Thr Gly Leu Ser Met Thr Thr Ile Ser His Trp Leu Ala
      565      570      575
Asn Val Lys Tyr Gln Leu Arg Arg Thr Gly Gly Thr Lys Phe Leu Lys
      580      585      590
Asn Leu Asp Thr Gly His Pro Val Phe Phe Cys Asn Asp Cys Ala Ser
      595      600      605
Gln Phe Arg Thr Ala Ser Thr Tyr Ile Ser His Leu Glu Thr His Leu
      610      615      620
Gly Phe Ser Leu Lys Asp Leu Ser Lys Leu Pro Leu Asn Gln Ile Gln
625      630      635      640
Glu Gln Gln Asn Val Ser Lys Val Leu Thr Asn Lys Thr Leu Gly Pro
      645      650      655
Leu Gly Ala Thr Glu Glu Asp Leu Gly Ser Thr Phe Gln Cys Lys Leu
      660      665      670
Cys Asn Arg Thr Phe Ala Lys Gln Ala Arg Ser Gln Thr Ala Pro
      675      680      685

```

&lt;210&gt; 586



<211> 1898  
 <212> DNA  
 <213> Homo Sapiens

<400> 586

ccgccttggg	tcagcctgct	cccctgttct	ctgccgcagt	gggggcccgc	agcctggcca	60
cctcccagct	cccaagccca	cccctggggc	ccaccgtccc	cccacagcca	ccctcgcccc	120
tggagtcgga	tggggaagg	ccgcccccca	gggtgggctt	tgtggacagc	accatcaaga	180
gcctggacga	naagctgcgg	actctgctct	accaggagca	cgtgcccacc	tcctcagcct	240
cagctggggac	ccctgtggag	gtgggcgaca	ganacttcac	cctggagccc	ctgagagggg	300
accagccccg	ctcanaggtc	tgcggggggg	acctggccct	gccccagtg	cctaaggagg	360
cggctcagag	gcgtgtccag	ctgccccagc	ccttggtgga	gaagtacaga	ctggccccc	420
ctcgaggggc	cgtgatggag	cagggcacgt	cctcgtcaat	gacagagtcg	tctcccagga	480
gtatgctagg	ctatgacaga	gatggaaggc	aggtggcctc	agactcccat	gtggtcccca	540
gcgtccccca	ggatgtacct	gcttttgtga	gacctgcacg	tgtgganccc	acnacaggg	600
atggtggana	agctgganaa	agctcgcan	agcccccgcc	gagtgcacatg	ggcanngtgg	660
ggggccaggc	tagccacccc	cagacactcg	gcnetcgagc	tttggggctc	cctcggaanc	720
gtccagatca	ccaggatgtc	agctcaccag	ccaagactgt	gggcccgtttc	tcggtggtca	780
gcactcagga	cgagtggacc	ctggcctccc	cccacagcct	gagatactct	gccccacccg	840
acgtctacct	ggacgaggcc	ccctccagcc	ccgacgtgaa	gctggcagtg	cggcggggcg	900
agacggcctc	ctccatcgag	gtcggcgctg	gcgagcccgt	gtccagcgac	tctggggacg	960
agggccctcg	ggcgagaccc	ccggtgcaga	agcaggcgtc	cctgcccgtg	agtggcagcg	1020
tggctggcga	cttcgtgaag	aaggccaccg	cttcctgcag	aggccttctc	gggcccgtct	1080
cgtggggccc	cgagacacc	agcagggtgg	gcataaaggt	ccccacgac	agcgtgacct	1140
ccttccattc	ccagtcgtcc	tacatcagca	gcgacaatga	ttcgagctc	gaggatgctg	1200
acataaagaa	ggagctgcan	agtctgcggg	agaagcacct	gaaggagatc	tcggagctgc	1260
agagccagca	gaagcaggag	atcgaagctc	tgtnccgccc	cctgggcaag	ccactgcccc	1320
ccaacgtggg	cttcttccac	acggcacccc	ccactggccg	ccgganaaaa	accanacaaga	1380
ncaagctgaa	ngcaggcaag	ctgctaaatc	ccctgggtcg	gcagctcaag	gtcgtggcct	1440
ccaacacagg	tcacttggtc	gactccanca	naagccctcc	cgctaangac	ctgcccnaag	1500
cagtgtgggg	ctcactgcan	acaacacggg	cctgaacggg	aangcagtgc	anaccananc	1560
ccctgctccg	tccggggctc	cctgtcttcn	gacatctgct	ccggcttacc	antgatggaa	1620
gcggaaacgc	tngncaangg	tcctccacca	acaacctggc	ccaggcctga	accaagcccc	1680
acccgccttg	cacgtccaag	cgcangtgaa	caacancaac	nacaagaaag	gttcttcncc	1740
gacgaactgc	acaanctggg	ggacnaatgg	acaacaanan	ngtggggggc	gcgcactgaa	1800
acccacnctc	naccctnaa	ncnnaaccnc	aacttccana	cattgaggcc	cgcagggtggg	1860
ctgccttggc	naagcccggc	tttnaccccc	ctccaaca			1898

<210> 587  
 <211> 399  
 <212> PRT  
 <213> Homo Sapiens

<400> 587

Ala	Leu	Gly	Gln	Pro	Ala	Pro	Leu	Leu	Pro	Ala	Ala	Val	Gly	Ala	Val
1				5					10					15	
Ser	Leu	Ala	Thr	Ser	Gln	Leu	Pro	Ser	Pro	Pro	Leu	Gly	Pro	Thr	Val
			20					25					30		
Pro	Pro	Gln	Pro	Pro	Ser	Ala	Leu	Glu	Ser	Asp	Gly	Glu	Gly	Pro	Pro
			35				40					45			
Pro	Arg	Val	Gly	Phe	Val	Asp	Ser	Thr	Ile	Lys	Ser	Leu	Asp	Lys	Leu
	50				55					60					
Arg	Thr	Leu	Leu	Tyr	Gln	Glu	His	Val	Pro	Thr	Ser	Ser	Ala	Ser	Ala
65					70					75				80	
Gly	Thr	Pro	Val	Glu	Val	Gly	Asp	Arg	Phe	Thr	Leu	Glu	Pro	Leu	Arg

```
<210> 588
<211> 707
<212> DNA
<213> Homo Sapiens
```

<400> 588							
agatggcgcc	tgtgtgaca	gggaaatttg	gtgagcggcc	tccacctaaa	cgacttacta		60
gggaagctat	gcgaattat	ttaaaagagc	gaggggatca	aacagtnctt	attcttcatg		120
caaaagtgtc	acagaagtca	tatggaaatg	aaanaagggt	tttttgccca	cctccttggtg		180
tatatcttat	gggcantgga	tggaagaaaa	aaaangaaca	aatggaacgc	gatggttggt		240
ctgaacaaaa	gtctcaaccg	tgtgcattta	ttgggatagg	aaatagtgac	caaaaaatgc		300
agcagctana	cttggaaagga	agaactattt	gcacagccaa	aacatttgat	atatctgact		360
cgacaagcgt	aacgactctc	atgttgtctg	taaagatggt	ccctggcaac	agtgatgaca		420
ttggtgtggt	cctcagcaag	cgaataaaaag	tontctccaa	actctccaaa	agaacagctc		480
attgaaaaat	gctgacttat	gcattgcctc	angaacaaag	gtggctctgt	ttaatcgact		540

acnateccan	acagtttagta	ccagatactt	gcatgttana	aggaggtnat	tttcatgccca	600
gttcacagcn	gtggggagcc	ttttttattc	anctcttgga	tgatgatgan	tccnaaggag	660
aagaattcac	ngtccgagat	ggctacatcc	attatggaca	aacagtc		707

&lt;210&gt; 589

&lt;211&gt; 551

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 589

actgtggctt	ctgcatttca	aatcagcact	tgcagggaga	caacgggggtt	tttgaatagt	60
atcacctggg	atgaaaagtt	ttcccaagaa	accacaaacg	attgttcatt	ttttctcctt	120
ttttgttaac	tttttgccac	actcaagtca	gtttaagtcc	tagcaaaaag	acggtagtta	180
ggataccact	gtggctgtan	atgatgtgac	actggttgaa	tttgtgctgg	cgtttgtgta	240
acttccctcg	ctgtttgtgt	ttgattcggt	agggggcacc	tggcttgaat	tggctcgaag	300
gattgctcct	gctgcactgc	aatgtggccg	cggccctggg	tctggtgtgt	angtaaagggt	360
aaggctgggtg	gaataaatga	ttccaccatt	tccgaccaa	gttactggaa	cctggactgg	420
ttgccggacc	catctccaac	cttctcggaa	tgcanaaatg	tctgggacga	cacagaacat	480
acctctccac	acctgtacat	aatttcagct	tctacatccc	caaaccacac	tcgtaaattt	540
ggantnaaaa	t					551

&lt;210&gt; 590

&lt;211&gt; 478

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 590

actgtggctt	ctgcatttca	aatcagcact	tgcagggana	caacgggggtt	tttgaatagt	60
atcacctggg	atgaaaagtt	ttcccaagaa	accacaaacn	attgttcatt	ttttctcctt	120
ttttgttaac	ttttngccac	actcaantca	gtttaagtcc	tagcaaaaan	acggtagtta	180
ggataccact	gtggctgtaa	atgatntgac	actggttgaa	tttgtgctgg	cgtttgtgta	240
acttccctcg	ctgtttgtgt	ttgattcgtn	agggggcacc	tggcttgaat	tggctcgaag	300
gattgctcct	gctgcactgc	aatgtggccg	cggccctgnt	tcttatntgt	tgtaaangtn	360
aggntgggtg	aataaatgat	tccatcatnt	cgganccgaag	ttgctgggaa	ctggganngg	420
tngnccgaac	catctccgac	cncccggaac	ngcagaagtg	ttngtggngag	accggaac	478

&lt;210&gt; 591

&lt;211&gt; 707

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 591

actgtggctt	ctgcatttca	aatcagcact	tgcagggaga	caacgggggtt	tttgaatagt	60
atcacctggg	atgaaaagtt	ttcccaanaa	accacaaacg	attgttcatt	ttttctcctt	120
ttttgttaac	tttttgccac	actcaantca	gtttaantcc	tancaaaaag	acggtagtta	180
ggataccact	gtggctgtaa	atgatgtgac	actggttgaa	tttgtgctgg	cgtttgtgta	240
acttccctcg	ctgtttgtgt	ttgattcggt	agggggcacc	tggcttgaat	tggctcgaag	300
gattgctcct	gctgcactgc	aatgtggccg	cggccctggg	tctggtgtgt	aggtaaagggt	360
aaggctgggtg	gaataaatga	ttccatcatt	tccgaccaa	gttactggaa	cctggactgg	420
ttgccggacc	catctccaac	cttctcggaa	tgcagaaatg	tctgggacga	cacagancat	480
actctctcca	cacctgtaca	tagtttcngc	ttctacatcc	ccaaaccaca	ctcgtaaatt	540
tggantgaaa	ttctgtcctg	taagttcaag	cattnctacg	tccccaccg	ccatttcaac	600
tgaagggtc	tctaccacan	ggnacaggaa	atgactgggg	caaggacagg	gccccattccc	660
tcattaaatg	tnatactccg	ccttatcngt	cctaaangaa	tgtncaa		707

&lt;210&gt; 592

&lt;211&gt; 541

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 592

```

ggtaaacttt tggccacnca caattcantt taattcctac caaaaaaacg gtatttagna      60
tncnctgtg gctgtaaata atttaacnct ggtaaatttn ntctgggctt tngtntanct      120
ccccccctn ttngtttttn atccnttagg gggcacctgn cttnantngg cncaaaggat      180
ngccccctgt gcantgcaat ttggccnccg cctgggtcct ggttnttagg taaaggtaag      240
gcnngtgnaa taantaatcc caccattncg naccaaattt actgnaacct gaacnggttg      300
ccgnaccan cncancctn cncgaaatgc aaaantttct ggnacaacnc aaacctacn      360
cncnccacc ctnctnctat ttncagctnc tacntcccca aaccacacnc ntaaatngn      420
attaaaatcc tntcctgtaa ttccaagcat ggctacttcc ccaccgccat tcaactnaag      480
gccnctacc acaggncag nattaantgg ggcaaggaaa gggcccatcc ccccataaaa      540
t                                                                                   541

```

&lt;210&gt; 593

&lt;211&gt; 605

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 593

```

actgtggctt ctgcatttca aatcagcact tgcagggana caacgggggtt tttgaatant      60
atcacctggg atgaaaagt ttcccaanaa accacaaacn antgttcatt tttntcctt      120
ttttgttaac tttttgccac actcaantca gtttaantcc tagcaaaaaa acggtagtta      180
ggataccact gtggctgtaa atgatgtnac actgggtgaa tttgtgctgg cgtttgtgtg      240
acttccctcg ctgttttgtt ttgattcggt agggggcacc tggcttgaat tggctcgaan      300
gattgtcctt gctgcactgc aatgtggccg cggccctggg tctgggtgtg aagtaaagg      360
aaggctggg gaataaatga ttccntcatt tcggancaaa gttactggaa cctggantgg      420
ttgncggacc atctccaacc ttctcggaat gcanaaatgt ctgggacaa acnnaacata      480
ctctctccnc acctgggtca tantttcagc ttctacatcc cccaaaccac actcntaaat      540
ttggantgaa attctgtcct gttaattcaa acattgctac gtcccccncg ccattcaact      600
gaaag                                                                                   605

```

&lt;210&gt; 594

&lt;211&gt; 666

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 594

```

gaagagtttg tggaagatgg cgcctgttgt gacagggaaa tttggtgagc ggcctccacc      60
taaacgactt actaggaag ctatgcgaaa ttatttaaaa gagcgagggg atcaaacagt      120
acttattcct catgcaaaa ttgcacagaa gtcatatgga aatgaaaaaa ggtttttttg      180
cccacctcct tgtgtatata ttatgggcag tggatggaag aaaaaaaaag aacaaatgga      240
acgcgatggg tgttctgaac aagagtctca accgtgtgca ttatttgga taggaaatag      300
tgaccaagaa atgcagcagc taaacttggg aggaagaac tattgcacag ccaaaacatt      360
gtatatatct gactcagaca agcgaaagca cttcatgttg tctgtaaaga tgttctatgg      420
caacagtgat gacattgggt tgttctcan caagcgata aaagtcatt ccaaaccctt      480
caaaaagaac agtcattgaa aaatgtgac ttatgcattg cctcaggaa aaagggtgct      540
ctgtttaatc gactacgatc ccagacagtt ngtaccagat acttgcattg anaaggaggt      600
aattttccat gccagttccc accagtgggg agcctttttt attcnctctt gggatgatga      660
tgaatc                                                                                   666

```

&lt;210&gt; 595

<211> 600  
 <212> DNA  
 <213> Homo Sapiens

<400> 595  
 gccacactca agtcagttta agtcctagca aaaagacggt agttaggata ccactgtggc 60  
 tgtanatgat gtgacactgg ttgaatttgt gctggcggtt gtgtaacttc cctcgctgtt 120  
 tgtgtttgat tcgttagggg gcacctggct tgaattggct cgaaggattg ctctgtctgc 180  
 actgcaatgt ggccgcggcc ctggttctgg tgtgtaggta aaggtaaggc tgggtggaata 240  
 aatgattcca tcatttcgga ccaaagttac tggaacctgg actggttggc ggacccatct 300  
 ccaaccttct cggaatgcag aaatgtctgg gacgacacag ancatactct ctccacacct 360  
 gtacatagtt tcagcttcta catccccaaa ccacactcgt aaatttggag tgaaattctg 420  
 tcctgtaagt tcaagcattg ctacgtcccc accgccattc aactgaaggc tctctaccac 480  
 aggcacagga atgactgggg caaggacagg gcccatcccc tncataaaat gtntaatttg 540  
 gggncaaantg tggcccccaa cccccccca aaggggcatna tttaacnccn ctttaattgg 600

<210> 596  
 <211> 835  
 <212> DNA  
 <213> Homo Sapiens

<400> 596  
 actgtggctt ctgcatttca aatcagcact tgcagggaga caacgggggt tttgaatagt 60  
 atcacctggg atgaaaagtt ttcccaanaa accacaaacn attgttcatt tttctcctt 120  
 ttttgttaac tttttgccac actcaantca gtttaagtcc tagcaaaaan acggtagtta 180  
 ggataccact gtggctgtaa atnatgtgac actggttgaa tttgtgctgg cgtttgtgta 240  
 acttccctcg ctgtttgtgt ttgattcgtt agggggcacc tggcttgaat tggctcgaag 300  
 gattgctcct gctgcactgc aatgtggcgg cggccctggg tctggtgtgt aggtaaaggt 360  
 aaggctgggtg gaataaatga ttccatcatt tcggaccaaa gttactggaa cctggactgg 420  
 ttgccggacc catctccaac cttctcggaa tgcagaaatg tctgggacga cacanancat 480  
 actctctcca cacctgtaca tagtttcagc ttctacatcc ccaaaccaca ctcgtaaatt 540  
 tggagtgaiaa ttctgtcctg taagttcaag cattgtctacg tccccaccgc cattcaactg 600  
 aaggcctcta cacaggcaca ggaatgactg gggcaaggan agggccatt ccctcataaa 660  
 atgtatactc tgcccttatct gtgctaataa ttgtccagga aacgccanca tttaccacc 720  
 tcnttattgg tctcttttggg antggaatgg cctgaaattg aaatattctt ccttgaaaaa 780  
 aggccaaata cntctctctg ttcccttnaag ggtaaaatgc ccatttttgg aattg 835

<210> 597  
 <211> 443  
 <212> DNA  
 <213> Homo Sapiens

<400> 597  
 agcagttcga atgccaggaa actgctcgag tgccagggtg aggtgggggc ccccgaggag 60  
 gaggaggagg aggaggagga cgcgggcctg gtggccgagg ccgangccgt ggctgccggc 120  
 tggatgctcg atttccctctg cctctctctt tgccgagctt tccgcnacgg ccgtccgag 180  
 gacttccnccn ggaccgcgaa cagcgcanag gctattatct atggactatc cagtctaaca 240  
 gcttgccagt gagaacgata tacatatgtc agtttttgac aagaattgca gcaggaaaaa 300  
 cccttgatgc ncagtttgaa aatgatgaac gaattacacc cttggaatcn gccctgatga 360  
 tttgggggtc aattgaaaag gaacatgacn aacttcntga agaaatacag aatttaatta 420  
 aaattcangc tatngctggt tgt 443

<210> 598  
 <211> 491  
 <212> DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 598

```

gtactttgag gagttcctac tcttctttct ttcttattaa ggtcttgttg ctgggttcca      60
tggtgcaact tagataanaa aagattcttg tgagacctca ataaggatac tgtaccctct      120
gaggattcag ttaccgcaga ctgtttgtca ctaacacttt ttcttgtatc caaattagct      180
tcagtttcca tttcaacatc attaccacta ggtttatctt gagaagttat tgttcttgtc      240
cttttgcctt ctactacttt tgccgctgcc ttcatataga aggttgatga tttttcactt      300
agcacataat tcacataact ctttaattttc tccatcatgt ggttgtagct gaagtgttga      360
aaaaaggaat gaaatgtatc tttctgagan attatcataa gcaatttgct tttgaaaggc      420
atatgagaat ttggatcacc aaatattctt tcaaagactt cttctgcttc tttaaagtgt      480
ccattttcca t

```

&lt;210&gt; 599

&lt;211&gt; 802

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 599

```

gtactttgag gagttcctac tcttctttct ttcttattaa ggtcttgttg ctgggttcca      60
tggtgcaact taaataagaa aagattcttg tgagacctca ataaggatac tgtaccctct      120
gaggattcag ttaccgcaga ctgtttgtca ctaacacttt ttcttgtatc caaattagct      180
tcagtttcca tttcaacatc attaccacta ggtttatctt gagaagttat tgttcttgtc      240
cttttgcctt ctactacttt tgccgctgcc ttcatataga aggttgatga tttttcactt      300
agcacataat tcacataact ctttaattttc tccatcatgt ggttgtagct gaagtgttga      360
aaaaaggaat gaaatgtatc tttctgagag attatcataa gcaatttgct tttgaaaggc      420
atatgagaat ttggatcacc aaatattctt tcaaagactt cttctgcttc tttaaagtgt      480
ccattttcca taaaaacagc tatagcctga attttaatta aattctgtat ttcttcatga      540
agtttgtcat gttccttttc aattgaaccc caaatcatca gggctgattc caanggtgta      600
attcgttcat cattttcaaa ctgtgcatca agggtttttc ctgctgcaat tcttgcaaaa      660
aactgacata tgtntatcgt tctcaactgg cnagcctgtt aaactggaaa atccatgaat      720
aataacctct ggcgtgtgtg cgggtcctgc ggaaattccn cggaaccggc cgtcncggaa      780
aactcngcaa aagaaaaaaa gc

```

&lt;210&gt; 600

&lt;211&gt; 523

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 600

```

gaaaagcaac ttttattgaa naatttggag ggaagggttc atattatatt ataatagtaa      60
aaatactaaa gttgaatgtt gtaaaaaaac nccgtggtgc agcggcagcg gcagcgtctg      120
gccaggaggc gtggaggggc ccagggatgg ccacccccac agggagtcag ggagggcctg      180
gggcgacagc ggaaggttta agcgtcnaaa aggtcaagtg ctaccgtgga naaatcatct      240
gagggggagg ctcccgggtg gacagtcacc aanaactgtt acacacaagg ggaaggggga      300
gggctttcct gtcacaaaana ttaaaaaccc ccnaaatgca tttgaacaac atnatcacn      360
ataacaaatt taaaccttgc tctctgttcc cactgggttna accctggccc atccccatc      420
cctggtccca tcccaggggc ccagcctccg atnactcttc anaaacacng ccttnntgct      480
ggggggctgc tgtntnctg ccacccccnn gaaaagggtgc tgg

```

&lt;210&gt; 601

&lt;211&gt; 530

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

<400> 601  
 aaaaccaact tttattgaaa aatttgagg gaaggtacca tnttatntta taatantaaa 60  
 aatactaaat ttaaatTTtn taaaaaaacc ccntgntgca ccggcancgg cancttctgg 120  
 ccaaaaangct tnaagggggc cagggatngc cnccccnca gggattcngg gagggcctgg 180  
 ggcaanancg naaaggTTaa ccntcnaaaa ggtcaattnc taccgtgnaa aaatnatctn 240  
 aggggggancg tcccgggtgg acactcccn aaaactntna cccaaaaggg gaagggggag 300  
 ggctttcctn tnncaaaaat tnaaancccc cnaaatgcct ttnaacnact ttntnccan 360  
 tnncaatttt naaccttgc cctctntccc actgggtnaa ccctggccca tccccatcc 420  
 ctggtccent ccngggggc cccccccna taacttctc aaaaaccngc cttnttntctg 480  
 gggggctgct nttttcttcc ccccccaana aaaggtntctg gccccctcc 530

<210> 602  
 <211> 311  
 <212> DNA  
 <213> Homo Sapiens

<400> 602  
 gccnancagg nanccgcgc tgaagccacc gccgggtgcc cagcgccgcc gccgcccccg 60  
 agctcccccg cgccctg'c cncgggcggn cgggtggcac cgggcgccat gccgcgcgcg 120  
 gganccgctg cggntncgn tgtgcncctt ggtgcncgga anancanggc tacngnttct 180  
 acctntacgt gtganannng ccgcccgggg cacttctcc ggcgcgtna ncctctgttc 240  
 ccccgccgag gncgcgcgc tgtgctctgg ggatctnctg ntnagggtca acntgcntca 300  
 acgtgnaggg c 311

<210> 603  
 <211> 289  
 <212> DNA  
 <213> Homo Sapiens

<400> 603  
 gcanagaaag gtttgTTTTa ttgcaattat ttaaactncg tcccangggg gaggggaagg 60  
 gggangggaa ggggggggtn tctggtnttn attngatncc tgtctgccan cttnnacatc 120  
 tatnangaan anaaccatca ncnenttcc ctttcantca tctggcncct gcanaccatc 180  
 ttctgccctc tncccccgc tgcctctcna ctccentgac cncctctcatc tctctcncet 240  
 ctgntcctc nctctntctc tcatttctct gttncaactc ctctcccc 289

<210> 604  
 <211> 356  
 <212> DNA  
 <213> Homo Sapiens

<400> 604  
 ctgaagccac cgccgggtgc ccagcgccgc cgccgcccc gagctcccc gcgcccctgc 60  
 ccgcgggcgg ccggtgggca tcgggcgcca tggccgnc ccggancgctg cggccgcgcc 120  
 tgtgccgctt ggtgcgcgga nagcanggt acggcttcca cctgcacggg gagaanggcc 180  
 gccgcgggca ntcatccgg cgcgtggaac ccggttcccc cgccgaggcc nccgcnctgc 240  
 gcgctgggga ccgcntgntc naggtcnacn gcgtcaacnt ggagggcgat accaccnct 300  
 ngtgntgcnt acgatchang ctgtngangg gcanactcgg ctgctggtgg tggacc 356

<210> 605  
 <211> 290  
 <212> DNA  
 <213> Homo Sapiens

<400> 605

gcaaagaang	gtttgtntta	ttgcaattat	ttanagcgcg	tcccaagggg	gaggggagg	60
ggggangggaa	ggggggggt	tcttgctana	aactggaaac	ntgtttctta	ccccnatntc	120
nnantcgact	nccaccaact	gtnnntcttc	cttcctttcc	cnangtcctc	anntaccncc	180
tnttgccctt	ctnccctctn	tttccctctn	cgctttccct	naetctttat	ctntcttntc	240
ctctctctct	ctcacctctt	tctccctctc	ccttcacnct	cacnttgtct		290

&lt;210&gt; 606

&lt;211&gt; 714

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 606

cgccagaaaa	agttatttta	atthttctatt	aaacattctt	ctcaaagcat	tattttatcc	60
tatatctcac	tgaattttta	gaaataacat	tagtattaga	aaaactagga	aaaaagataa	120
atgcagataa	ttaaacttac	atgaaaaagg	aaaattataa	caaaggactg	agaacgttat	180
aaattgaaat	gagattataa	tttgaaaact	gcactctgaa	gcaaacttta	ttgttcaatt	240
atncttaaat	atgggtgttt	atgactaata	cactgatttt	tcaagaagga	aacccatggt	300
aaaaatattt	ttatttttaa	aataagcctg	tggtcaagct	ctgatcata	ttcttttatt	360
ttgatttggg	anaaaaatac	tggttctgat	agcatgaaat	gcaaaatttt	tagattttta	420
atctcactaa	ttttaanaac	tattgagaaa	ttgattaatg	acatgaagt	cacaacacta	480
attactggcc	agctgttggc	attgtgtttc	ttacttagtt	ctcccaaggg	aaaactctta	540
aattgaaat	tcagcagaat	aatccttaaa	tatactttgt	aagcaaaaca	aaagcttttt	600
tgtttacata	gttctttggg	atthttactgt	tcctaatttt	attctgaaac	tcaattttac	660
cccagaccat	aattaccata	ttacttttgt	tntgcacagt	tgtttgccaa	ttca	714

&lt;210&gt; 607

&lt;211&gt; 687

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 607

atthttaattt	tctattaaac	attcttctca	aagcattatt	ttatcttata	tctcactgaa	60
ttttaanaaa	taacattagt	attagaaaaa	ctaggaaaaa	agatnaatgc	agataattaa	120
acttacatga	aaaaggaaaa	ttataacaaa	ggactgagaa	cgttataaat	tgaaatgaga	180
ttataaatttg	aaaactgcat	ctgaaagcaa	actttattgt	tcaattattc	ttaatgatgg	240
tgthtttatga	ctaatacact	gattthttcaa	taaggaaacc	catgttaaaa	atattthttat	300
tttaaaaaata	agcctgtgtt	caagctctga	tcataatttct	tttattthtga	tttggaaga	360
aaatactgtt	tctgatagca	tgaaatgcaa	aattthttaga	ttthtaattc	cnctaatttt	420
aagaactatt	gagaaattga	ttaatgacat	gaagtgcaca	acactaatta	ctggccagct	480
gttggcattg	tgthttcttac	ttagttctcc	caaggaaaaac	tcttaaaactg	aatcttcagc	540
ngaataacct	taaatatact	ttgttagcca	aacaaaactt	ttttgtttac	atagtthttt	600
ggattthtact	gttcttaatt	ttattctgaa	actccatttt	tccccagacc	ataattaccc	660
tatttaactt	tgthtatgcac	agthgtt				687

&lt;210&gt; 608

&lt;211&gt; 994

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 608

ctcacccagt	tgctcctcag	atgtttgggt	atgctggaaa	agaacatatg	gaaaaatatg	60
gaacaaaaat	tgaacacttt	gcaaaaattg	gatggaaaaa	tcataaacat	tcagttaata	120
accgcgtatc	ccagttccaa	gatgaataga	gttttagatga	agtgatggca	tctaaagaag	180
tttttgattt	tttgactatc	ttacaatgtt	gtcccacttc	agatgggtgt	gcagcagcaa	240
ttttggccag	tgaagcattt	gtacagaagt	atggcctgca	atccaaagct	gtggaaattt	300



tggcacaaga	aatgatgact	gatttgccaa	gctcgtttga	agaaaaaagc	attattaaaa	360
tgggttggtt	tgatatgagt	aaagaagctg	caagaaaatg	ctatgagaaa	tctggcctga	420
caccaaatga	tattgacgta	atagaacttc	acgattgctt	ttctaccaac	gaactcctta	480
cttatgaagc	actgggactc	tgtccagaag	gacaagggtg	aacgctgggt	gatagaggag	540
ataatacata	tggaggaaag	tggtgcataa	atcctagtgg	tggactgatt	tcaaagggac	600
accactagg	cgctacaggt	cttgcctcagt	gtgcagaact	ctgctggcag	ctgagagggg	660
aagccggaaa	agaggcaaag	ttcctgggtg	aaaggtggct	ctgcngcata	at tt tangcat	720
tggaggaaact	gtggttgtaa	cactctacaa	gatgggggtt	tcccgggaagc	cgccagttcc	780
ttttagaact	catcaaaatt	gaagccngtt	ccaaccaagc	tctgcaagtn	atnggtttaa	840
ngnaaaatct	ngttttaaag	gnggattgag	aaggaaacnt	naaagaggga	anggggaaca	900
at tt gtgaaa	gaaaaatncg	gngggaattt	ttgcccttca	aggggaaana	atggccctgg	960
ggggtaaaag	anggccaccc	tggggtggtg	ggat			994

&lt;210&gt; 609

&lt;211&gt; 843

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 609

ggccaaaaaa	antttatttna	atttccctatt	aancntcctc	cncaaancat	tatttnaccc	60
tatnnncnc	nganttttnan	aaantacctt	tnntnttaaa	aaacctngga	aaaaaaataa	120
tngcaaatn	ttaaccttnc	ttgaaaangg	aaatttntac	caanggacng	aaancnttnt	180
aattngaant	naaattatan	ttngaaancg	gcnnncgaaa	ccaancttna	tgggtccaatt	240
atcctnaang	agggnnnttn	annactaatn	ccngattttt	ccaatangga	ancccnnttt	300
aaaantnttt	tnatttttaa	aataaccncg	tncccaaccc	cngatcanat	tccttttnatt	360
tggattgggg	aaaaaaatnc	ngttccnnat	accnngaann	gcaaantttt	ttaaattttta	420
acccccctan	ttttaaaanc	tatngaaaan	tngattanng	acttgaattg	ccaaccctan	480
ttncnggcc	ccngtgggcn	tngtnttcct	tacttantcc	ccccaggaa	annccctaan	540
cngaantcc	nccaaaataa	cccttaanta	tccttggtta	ccaaancaaa	acctttttng	600
tttacntant	ccttgggatt	taacgggtcc	ccaatttnat	ccngaaccce	nttttccccc	660
naaccatant	taccatttta	ccttggtaag	gcncagtngt	ttgcantncc	gcaaancag	720
antnttcccc	nggcnccttc	ccccgancct	tgggaaaaaac	gggatnggtc	ccccctttaa	780
aaaacaacct	tccccncct	ttggcccagg	nntnttcccc	gtctaaatcc	gaacaataaa	840
aag						843

&lt;210&gt; 610

&lt;211&gt; 707

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 610

ctagtctcga	gttttttttt	ttttttttta	cctttccctta	tgagcatgcc	tgtgttgggt	60
tgacagtgag	ggtaataatg	acttgttgg	tgattgtana	tattgggctg	ttaattgtca	120
gttcagtgtt	ttaatctgac	gcaggcttat	gcggaggana	atgttttcat	gttacttata	180
ctaacattag	ttcttctata	gggtgataga	ttgggtccaat	tgggtgtgag	gagttcagtt	240
atatgttttg	gatttttttag	gtantgggtg	ttgagcttga	acgctttcct	aattgggtggc	300
tgccttttag	cctactatgg	gtgttaaatt	ttttactctc	tctacaaggt	tttttcctag	360
tgtccaaana	gctgttcctc	tttggactaa	cagttaaatt	tacaagggga	tttagagggg	420
tctgtgggca	aatttaaagt	tgaactaaga	ttctatcttg	gacaaccagc	tatcaccagg	480
ctcggtaggt	ttgtgcctc	tacctataaa	tcttcccact	at tt t gctac	atagacgggg	540
tgtgctcttt	tanctgttct	tangtanctc	gtctggtttc	gggggtctta	gctttggctc	600
tccttgcaaa	gttattttct	agttnaattc	attatgcnca	angtataggg	gttagtcctt	660
gctcatatta	tgccttggtta	taattttcca	nctttcccct	tgcggta		707

&lt;210&gt; 611

<211> 663  
 <212> DNA  
 <213> Homo Sapiens

<400> 611  
 ccattttata atgcgcttta tttgattaaa gaatttgcct tctttgtata cactggaatg 60  
 ttatattccc tatgtatttt acaggggttac aaaatgtctc tcatttttaa tattacccca 120  
 aaagtaatct canaaaaaaaa aggttttttg aaattaaact tgacttttaa aaaatcatac 180  
 ggacaaacaa ctttcaaaaca aaactggatt agtaggattt cttgcctgct taactaacat 240  
 gacanacttc ttgtcccagg cccttctcan aaaaacctca tgtggaaacc aagctanaga 300  
 taanaattct tccctgatgc agttagggga aagggaagg ctagaaactt ctttggcaag 360  
 caattccaca cacagccatt tatgtgtgag tgctctgctt caagcacagt acgctctttg 420  
 cagggaacgc cagatgttca gagtgggagt ggtacttttc aaccagctaa aagtgcagaa 480  
 gtcactant cgtctgctc tccccactgc cagtgcctgc agccttgca caacttttaa 540  
 ccaccccta tgggactgga atnttgagtt aaaaagccaa ngctgaactg gctgacgctg 600  
 tantctccan tgaaaaggaa atgggatgaa atggaaaccg aaaaacccc ngtnacntga 660  
 tga 663

<210> 612  
 <211> 621  
 <212> DNA  
 <213> Homo Sapiens

<400> 612  
 cattttataa tgcgctttat ttgattaaag aatttgcctt ctttgtatac actggaatgt 60  
 tatattccct atgtatttta cagggttaca aaatgtctct cattttaaat attaccccaa 120  
 aagtaatctc anaaaaaaaaa ggttttttga aattaaactt gactttttaa aaatcatac 180  
 gacaaacaac tttcaaaaca aactggatta gtaggatttc ttgcctgctt aactaacatg 240  
 acaaacttct tgtcccaggc ccttctcana aaaacctcat gtggaaacca agctananat 300  
 aanaattctt ccctgatgca gttaggggaa agggaaaggc tagaaacttc tttggcaagc 360  
 aattccacnc acagccattt atgtgtgagt gctctgctt aagcacanta cgctctttgc 420  
 agggacggcc anatgttcnn antgggagtg gtacttttca accagctaaa antgcanaag 480  
 tcatctantc gtctgctct tccccactgc agttgcctgc agccttgca catcttttaa 540  
 ccacccctat nggactggaa tattgaatta taaaccnng ntgaactggc tganctgtt 600  
 tctcccttga aaaggaaatg g 621

<210> 613  
 <211> 637  
 <212> DNA  
 <213> Homo Sapiens

<400> 613  
 catttnataa tgcgctttat ntgattaaan aatnngcctt ctttgtatac gcnggattgt 60  
 tatctccct ntntatttnn ggggggttaca antntcnct catttnaant atnncccaa 120  
 tantntnctn aaaaaaaaga ggtttganga aattaaactt gactttttaa anatcatgng 180  
 gacaaacnac tttcaaaaca agctggatta gnaggatttc tngnctgctt aactaacatn 240  
 aanacttct tgtcccaggc cctnctnaaa aaaacctctt gtggaaaccn agcnaaaaat 300  
 aananttctc ccctgatgca ntggggggag anggagaggc taaaaacttc tntggcaanc 360  
 anttccacnc acngccattt ttntntnagt gcnetgctnc nancnagta cgctctttgg 420  
 gnggacggcn anntntnat agngggagtg gtnccttcaa ccagctaata ntgaagaaat 480  
 catctagtcg nctgcctctn cccactgcca gtgcctgcnt ccttgcaacn tcttttaacc 540  
 cccctangg acnggattat nnagttaana ccgaggntga gctggntgac gctntctcct 600  
 ccatttgaaa angaaatgga taagatggaa ccgaaaa 637

<210> 614

<211> 673  
 <212> DNA  
 <213> Homo Sapiens

<400> 614  
 agattatgcc attgaggcta agaatagagt catttttgat ctaatttatg aatacgaaag 60  
 aaagagatat gaagatcttc ctataaatag caatccagtg tcttctcaga aacaaccagc 120  
 cttgaaggct acaagtggca aggaagattc tatttcaa atagccacag aaataaagga 180  
 tggacaaaaa tctgggacag tgtcttctca gaaacaaccg gccttgaagg atacaagtga 240  
 caaggatgat tctgtttcga acacagccac agaaataaaa gatgaacaaa aatctgggac 300  
 agtgcttctc gctgttgaac agtggtttaa caggagtctc tacagacctg atgctgttgc 360  
 acagcctgtg acagagaatg agttttcttt ggaatctgag attatttcaa aactatacat 420  
 cccaaagaga aagattattt ctccacgac tataaaagat gtgcttcctc ctgttgaaga 480  
 ggctgttgac aggtgtctct acctactgga ccgttttgca cagcctgtga caaagggata 540  
 agtttgcttt ggaatctgag aatatttcag aaccatactt tacgaacaga aggactattc 600  
 tcaacaatct gcagaaaatt tagatgctgc atgtggcatt gacaaaacag aaaatggana 660  
 catgtttgaa gac 673

<210> 615  
 <211> 714  
 <212> DNA  
 <213> Homo Sapiens

<400> 615  
 cctctggcta tattcaaaac agaatcttctc tcatcacttg aagccttcaa gcctgggtgt 60  
 ttctcanaan aactgttctt agatttttct ccatccttgt tttctctggc tatacccaaa 120  
 acagaatctt cctcgtcact tgtacccttc aagggtgggt gtttctgana anacactttc 180  
 ctanatattt ctccatcctt ttttctctcg gttatatctg aaaaanaatc cttctcatca 240  
 cttgtagcct tctgaggctg ttttttccga naagacactg tcctanattt ttctccatcc 300  
 ttgttttctc tggctatact caaaacagaa ccttcctcgt cacttgatnc cgtcaaggct 360  
 ggtggtttct ganaanacac tgtcccanat ttttctccat cttttatttc tgtggctatg 420  
 ttcgaaacag aatctttctc atcagttgta gccttcaagg ntgggtgttt ctgaaaanan 480  
 ctgtccana tttttctcca tctttattt ctgtggctat ntctgaaaca gaatcttctc 540  
 cgtcagttgt acctcnagg ntgggtgttt ctgaaaaaan actgtccac actgtatcca 600  
 tcttttatt tntgttanc atatcnaagc aaaaatctgt ttgtccctg ttacntttg 660  
 aaggtnngtn gtttctgaaa aataanctgt tccanatttt cccaccacc attt 714

<210> 616  
 <211> 688  
 <212> DNA  
 <213> Homo Sapiens

<400> 616  
 cctctggcta tattcaaaac agaatcttctc tctgacttg tagccttcaa gcctgatggt 60  
 ttctcanaan aactgttctt anatttttct ccatcctttt tttctctggc tatattcaaa 120  
 acanaatctt cctcgtcacc tgtagccttc aagggtgggt gtttctgaaa anacactgtc 180  
 ctanatgttt ctccatcctt tctttctctg gttatatattg aaaaanaatc tttctcatca 240  
 cttgtagcct tcaaggctgc ttttttccga naanacactt caagcctggt ggttgctctg 300  
 aaaacactgt tctaaatttt tctccatcct tttttctctt ggctatatcc aaaacanaat 360  
 cttcctcgtc actgttagcc ttcaaggctg gtggtttctg aaaananact gtcctanatg 420  
 tttctccatc ctttctttct ctggttatat ttgaaaaana atctttctca tcacttgatan 480  
 ctttcaagg tgcgtttttc cganaaaaa cttcaagcct ggtggttgct cngaaaaaac 540  
 tgtctaaaaa tttttctcca tctttttctt ctctnggcta tactcnaaac aaaatcntcc 600  
 tcttcccttg ttnccttca anggtgggtg gtttctcgaa aaaaanactg tcctanaatt 660  
 tctctcctc ctttttttct tctgggtt 688

<210> 617  
 <211> 721  
 <212> DNA  
 <213> Homo Sapiens

<400> 617  
 ttccgggcttc cacctcattt ttttcgcttt gccattctg tttcagccag tcgccaagaa 60  
 tcatgaaagt cgccagtggc agcaccgcca ccgcccgcgc gggccccagc tgcgcgtga 120  
 aggccggcaa gacagcgagc ggtgcgggcg aggtgggtgc ctgtctgtct gagcagagcg 180  
 tggccatctc gcgctgcgcc gggggcgccg gggcgcgccct gcctgccctg ctggacgagc 240  
 agcaggtaaa cgtgtgtctc tacnacatga acggctgtta ctcacgcctc aaggagctgg 300  
 tgcccaccct gcccagaaac cgcaaggtga gcaaggtgga gattctccag cacgtcatcg 360  
 actacatcag ggaccttcag ttggagctga actcggaatc cgaagttgga acccccgggg 420  
 gccgagggct gccggtcccg gctccgctca gcaccctcaa cggcgagatc agcgccctga 480  
 cggccgangt gagatccaga tccgaccact anatcatcct tataccgacg gggaaacnga 540  
 agccatanaa ggcgtggggc cttgcaccac ttccgtccca tccttgccgg tacctggtct 600  
 atgcnggggt ncctaaggac cttggaaaaa acgtccccc gtcgttgctt cctggggaan 660  
 ggggcgctnc gctgcgcttc ggaacggggg tccttccaac ccgcccgtct catttcttct 720  
 c 721

<210> 618  
 <211> 461  
 <212> DNA  
 <213> Homo Sapiens

<400> 618  
 ccaccancta anttattnt ttaataacaa aaaaacanc ccacaaaact atngtaaaac 60  
 aatatttcca ntccgtnatc ntngtattnt acaatacaaa ncantteccn caaaattctn 120  
 aaaancacca ancttnacca ttttttaaan tttctgcttt ncaaaaaanta aaaacncna 180  
 attgnantcc caccocetaa attctctggt nactattagg tntncaaaaa gnaccnccn 240  
 ctccnccca ttgcctcanc cncanccca ggctgnatnc atttaaggcg ncattggccg 300  
 ccaatcggn tnnctcnccc ncaaatccgg caaggcnctt nggggnaaac ccacaaaan 360  
 cttattcccc ctngccccct gaatggctgg ggtccgcgg tccctggggg aggcncctca 420  
 ccaacncaaa atgcaatcnt ccncagnaac ccntgccgcc t 461

<210> 619  
 <211> 751  
 <212> DNA  
 <213> Homo Sapiens

<400> 619  
 cccgagggac cacagctggc agctccgggg atgccctcgg caaagcactg gcctcgatct 60  
 actccccgga tactcaagc aataacttct cgtccagccc ttctacccc gtgggctccc 120  
 cccagggcct ggcaggaacg tcacagtggc ctcgagcagg agcccccggt gccttatcgc 180  
 ccatctacga cgggggtctc cacggcctgc agagtaagat agaagaccac ctggacgang 240  
 ccatccacgt gctccgcagc cacnccgtgg gcacagccgg cgacatgcac acgctgctgc 300  
 ctggccacgg ggcgctggcc tcagggtttca ccggcccat gtactgggc gggcggcacg 360  
 caggcctggt tggaggcagc caccocgagg acggcctcgc aggcagcacc agcctcatgc 420  
 acaaccagc ggcctcccc agccagccag gcaccctccc tgacctgtct cggcctccc 480  
 actcctacag tgggctaggg cgancaggtg ccacngcggc cgccancgag atcaagcggg 540  
 aagagaagga ngacgangag aacacgtcag cggctganca ctcggaagaa ganaanaagg 600  
 aactgaaggc ccccgggccc ggaccattac ggaacaagtg ctgtcccttg naggagaaaa 660  
 actgaaggac cgggaaaagg cncatggcaa ttacncccc ggaaccgggt cccttccggg 720  
 atattaacna aggcttccgg gaactggggg c 751

&lt;210&gt; 620

&lt;211&gt; 556

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 620

aatacaacgt	ttaatcatct	ggttgatcaa	aaaatgcaat	gctcagtcta	ggaacagcag	60
caaaaatagc	ganagacacg	ggacttttat	acaaaaaat	ttgttgctta	caaaacatat	120
gcaaaaaaag	cttaaaaaaa	ccaaaaacca	aaggcagcat	ccttgctaata	tttcatctac	180
attaanaaaa	aaaaaatctt	gtaactaatg	tttttatttn	ccttaaaaaa	aatatttcgc	240
ttaggcacaa	tttgctgggtg	gctttaaaaa	aataagccag	gtttccacag	catccccctt	300
gagtgatatn	tttccatttc	tccgcttttt	atagttaagg	cattttttnc	tnctctgaca	360
aagtgtatgt	tttgttgctt	gctttcaggt	tttgtttact	ggaaaaaaa	aaaaatgcc	420
tgtcanccca	ngcaanaggg	ccaanatgca	attcagggat	ccntgggaca	ggtccaaaat	480
gacccggggg	ctgaaattcc	gggacggggg	aacaaggcnn	tttaatngta	ggccaggggc	540
canggaaccc	tgaacc					556

&lt;210&gt; 621

&lt;211&gt; 708

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 621

ccacttnaat	tcctttatnc	ancaatatta	tcnnaaaagg	aaaaatcagg	atttacaaaa	60
acaatttaan	tgcaatataa	aaccctacta	aatacaata	caattncaca	aacnctatg	120
caacaaaaac	ttgtttaaat	ngttccttna	atttnnacta	cttaaaanca	taggtntaaa	180
ggaaaaacnt	ncaaaactgt	ccacttgggc	ttnttaccag	gcaaagnaac	cctgcttncc	240
aaaaactnat	atattccaaa	ttcnccgcat	ntggnaatnt	tnccatggac	nctgnatctt	300
aacaaatgct	atantnttta	caaaactacn	ccncaaaaa	aaccccaagg	aacctgcagg	360
ctaancctta	tnctttttaa	gggctnaagg	aaccaaacct	attttaancc	tnttngtttg	420
cnccatgcaa	aacttttatgn	aaaaccccca	aactaggcta	tttancnct	nccatnaatg	480
gnccccaaat	catntnatnc	tacggcataa	acaacancctg	ccctatttac	nccgaacctg	540
caaanctcac	aagnaattgtg	aattngcnct	ngggantcaa	tgtnccggg	tnaattatct	600
tggatnanaa	ccnttttcta	catnactatt	gaaaaaacct	gtgggttctt	gctttttaac	660
aaatnnggtg	ttcctttgcc	ccccccctt	atttttcaag	ggctgggt		708

&lt;210&gt; 622

&lt;211&gt; 675

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 622

atcacagtcc	agagagtcct	agaggaggac	gagagcataa	gancttgcct	tagtgaagat	60
gcaaaagaga	ttcagaacan	aatagaggta	gaagcagatg	ggcnaacaga	agagattttg	120
gattctcaaa	acttaaattc	aagaaggagc	cctgtcccag	ctcaaatagc	tataactgta	180
ccaaagacnt	ggaagaaacc	aaaagatcgg	accogancca	ctgaagagat	gttagaggca	240
gaattggagc	ttanagctga	agaggagctt	tccattgaca	aagtacttga	atctgancaa	300
gatntaatga	gccaggggtt	tcattctgaa	agagaccctt	ctgacctana	aaaagtga	360
gctgtggaag	aaantggaga	anaagctgag	ccagtncgta	ntgggtgctga	gagtgtctct	420
gaggggtgaag	gantagatgc	tacttcaggc	tcnccagata	gttctgggtga	tggggttacn	480
tnccatttn	aaccngaate	ctggaagcct	actgatnctg	aaggtnntgan	gcnnntngac	540
ngggagtctt	gctggacttc	cagttcatgc	ctgcctggta	tncttttccc	gagggcctgc	600
ctcctntcag	tgatttggtt	cttgacaaga	tcnccntcc	cccttttgcc	aatgccgaac	660
tctgggatcc	ttoga					675

<210> 623  
 <211> 713  
 <212> DNA  
 <213> Homo Sapiens

<400> 623  
 gctaaacatt tttttaagta tgagtccttg tttaaaaaga aaagattaaa acagaaaata 60  
 ttttctataa ataatacatg tattttgggt ttagtgctcc cgccctaagg ttggaagttt 120  
 acttttatcc agtacctttt tectccatga tcaccttttt ttctctttcc cctctccac 180  
 tcgtgcacac gtgggggttt ctgcgagaat tggccttgct gcactgtgat tggcgaaanac 240  
 gtgaaacttt ttaaaaaaat acttaaattg tttcttttgt ttcattttgt gtatttgaag 300  
 ttttagttat cctcagactc ctcttctgct tcccgagcc acgtgaagaa tgccgtgaca 360  
 gatttcagag ccacgccctt cccattctgc tctgcagggt ccttgctgct ctcccatttg 420  
 tagaaggcat cctcggagat cacctcctcg tcatatagac aatcaaaaaa catccgcagc 480  
 aaattggcag gttgatcaag ttttactatc gatgcttgta gtgcataaag tgctgcagtt 540  
 ccttctctgt atctgantct aggtacttga gtaagatcgg cactctctgc ttgataacag 600  
 cagtgtccac tctgaaggta naagaatcng gttattatag cttgctttta caaacagcng 660  
 tcnttaaagc tctaagggaat gttangtgaa atncaactgga tttcgtctaa att 713

<210> 624  
 <211> 554  
 <212> DNA  
 <213> Homo Sapiens

<400> 624  
 cattcnagaa agatnttaca cacggagttt nctcantatt gggctcaacg ggaagctgac 60  
 ttacggana ctctgcttca agtaacgana gatattanaa ganaatgctg gancgtcggt 120  
 tggtatctt cnaggatttg gttggtaaat gtgacctcg agaanaagca gcgaaagaca 180  
 tttntgccac caaagttgaa actgaagaag ctactgcttg tttagaacta actttnatcc 240  
 aattaaagct gaattagcta aaaccaatgg agaattaatc tcnaccncnc acnanttcnc 300  
 ccagaganaa natgaatccg attcattgat tcaagagctt gagacatctg ntaaganaat 360  
 aattncacan aatctggaga attnnagaat tgatnaatat nattgatcnn tcgaagatac 420  
 tatcancgaa tttcagaacc tnangtctca tatggaaaac tcntttaaat gcnatgacaa 480  
 ggctgataca tcttctttta taataaacia taaattgatt tgttatgaaa cagttgaagt 540  
 acctaaggga cagc 554

<210> 625  
 <211> 551  
 <212> DNA  
 <213> Homo Sapiens

<400> 625  
 gactgcatgt tctcatthtatt ttatggggtc taaaaataaa atcaattgac ctcatgggca 60  
 tacanantaa aaaaatgggt accagtgggt ggtaagggtg ctgacgggtg cagggggagg 120  
 tggggatggt taatgggtac aaaaacaaat aagatnaaaa gaatgattta atatctgata 180  
 gcacaatana ntgactataa tcaataataa cttacttgta tattttttaa tgatctaaaa 240  
 aatgtaattg gattatctgt aattcaaagg aaaaatgctt gaggggatgg atacctcatt 300  
 ctccatgata cactntttc acattgatgc ctgtgtcaaa acatctcaca taccocgtaa 360  
 atatatacat gtactatgta ccacaaaatg tttacaaaat aagtganaca ttctaattaa 420  
 agactgaaat ctttttctaa ataatgtata tacatgtttt gtgatctgta cacacttatt 480  
 ctccaaatcc taactntant cccaacanat atnttaaact cttgtttanc ngaataagtt 540  
 aaaaaaatcc t 551

<210> 626  
 <211> 680

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 626

atttggtaac	aggattaaaa	agaaatTTTT	aattccttgt	ctctcttctg	atggctgaac	60
agaactgctg	tgtcaaatgg	aaagcagcac	acaagaattc	ccttgacagac	cttgatcttt	120
cgcanaaatg	caaagacgcc	tgagttatac	aacttgcaat	tattattttc	tanacagaag	180
tgccaactgt	tgtgctttcc	agtgtatcag	tggttgctac	attctccttc	ttgtcttcgg	240
gtttcatggc	aggaaacaga	agtacttcct	tgatgttggt	ggagtccgtg	agaaacatgg	300
cgactcgatc	aatgcccattg	cccagccag	ctgtgggggg	cagcccatat	tccagggcag	360
tacagaagtt	ttcatctatg	aacatggcct	catcatcacc	tcagccttg	gccttgccct	420
gttcttcaaa	aanctgcccgc	tgccgcatgg	gatcattcag	ctcagtatac	gcattgcata	480
tctctttctt	catgacaaac	agctcaaanc	gctcagtcag	acctctttaa	ancggtgcca	540
tttaaccnaa	gggcatttat	ctgtgggtga	tcacagatga	atgtnggatt	gatgcaagtc	600
acttccanga	actccccaac	aancttgta	aggaacctgg	ctgtggtcca	angtgggaagg	660
catccacanc	ttttgcccc					680

&lt;210&gt; 627

&lt;211&gt; 753

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 627

acaaatatga	acgtctgaag	gcaaaccagg	tagctactgg	cattcggtac	aatgaaagga	60
aaggaaggtc	tgaactaatt	gtcgtggaan	aaggaagtga	acctcagaa	cttataaagg	120
tcttagggga	aaagccagag	cttccagatg	gaggtgatga	tgatgacatt	atancagaca	180
taagtaacag	gaaaaatggct	aaactataca	tggtttcaga	tgcaagtggc	tccatgagag	240
tgactgtggt	ggcanaagaa	aaccccttct	cantggcaat	gctgctgtct	gaagaatgct	300
ttatttttga	ccacggggct	gcaaacaaca	ttttcgtatg	gaaaggtaaa	gatgctaata	360
cccaagagag	gaaggctgca	atgaagacag	ctgaagaatt	tctacagcaa	atgaattatt	420
ccaagaatac	ccaaattcaa	gttcttccag	aaggaggtga	aacaccaatc	ttcaaacagt	480
tttttaagga	ctggagagat	naacgatcag	agtgatggct	tcgggaaagt	ttatgtcaca	540
gagaaagtgg	ctcaantnna	acnaattccc	tttgatgcct	cnnaattacn	cagttctccg	600
cagatggcag	cccagcacia	tatgggtggat	gatggttctg	gccaagtggg	aatttggcgt	660
gtncaaaaca	atggtaggat	ccaagttgac	cnnaactcct	atggtgactc	ccatggtggg	720
gactgctact	tcatactcta	cacctatccc	tga			753

&lt;210&gt; 628

&lt;211&gt; 675

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 628

ggtgtttcca	aaggctttta	ataagggttaa	aaaaaaaaata	aaatnccnct	taaaaataa	60
cncttananc	ttaatgacat	caaantcncn	ttgactaaaa	aaggaaaata	ncaaccaatt	120
gttaaancca	ccttaacata	aaccttatng	caattntaca	cntcttttga	acncaatcta	180
taaaaaaaaa	aataactncc	anggcattac	aacttttnct	ctggcatntt	aaaaaacaac	240
tctnactaat	ggctaatagca	ttataaaaatt	ncctatctna	caaatcttnc	taaattatgc	300
atagtatttt	acttttnaaa	ggtcntaaaa	aaaatataaa	tcanttncca	taaaanctaa	360
tatnggccca	taacaaaant	tcctnccagg	ttattttaat	ntnttaacnt	aaaaaaacnc	420
cagntgaaaa	aaaattncaa	nccaaaaacta	accnttaaaa	aataggcntt	nggttnaggt	480
taattttttt	tttttttttt	ttgnaaanaa	antcncnttt	gccagnctg	gattgtggtg	540
gcaccaatcc	tggtcactg	caacctcagc	ctcctgggtt	caagcaattt	ncctgtctca	600
gccttccaan	ttccngggaa	tacaggggtg	cnccaccacn	cccagctaaa	ttttttttgt	660
tttttttant	aaaag					675

<210> 629  
 <211> 677  
 <212> DNA  
 <213> Homo Sapiens

<400> 629  
 aagatcagcg atatcacgcg tccccgggag catcgcggtgc aggagccatg gcgcggggagc 60  
 tataccacga agagttcgcc cgggcgggca agcaggcggg gctgcaggtc tggaggattg 120  
 agaagctgga gctggtgccc gtgccccaga gcgctcacgg cgacttctac gtcgggggatg 180  
 cctacctggt gctgcacacg gccaaagacga gccgaggctt cacctaccac ctgcacttct 240  
 ggctcggaaa ggagtgttcc caggatgaaa gcacagctgc tgccatcttc actgttcaga 300  
 tggatgacta tttgggtggc aagccagtcg agaatagaga acttcaagga tatgagtcta 360  
 atgactttgt tagctatttc aaaggcggtc tgaaatacaa ggctggaggc gtggcatctg 420  
 gattaaatca tgttcttacg aacgacctga cagccaagan gctcctacat gtgaagggtc 480  
 gtanagtggg gagagccaca gaattcccct tagctgggac agtttcaaca agggtgactg 540  
 cttcatcatt gaccttggca ccgaaattta tcanttggtg tggttcctcn tgcaacaaat 600  
 atgaacgtct gaaggcaaac cangtancta ctggcattcg gtncaatgaa aggaaaggaa 660  
 ggtctgaact aattgtc 677

<210> 630  
 <211> 665  
 <212> DNA  
 <213> Homo Sapiens

<400> 630  
 gagacagagt ctctgttgcc caggctggag tgtggtggcg caatcctggc tcaactgcaac 60  
 ctcagcctcc tgggttcaag caattttcct gtctcagcct tccaagtagc agggactaca 120  
 ggctgacac accacgcgca gctaattttt ttgtattttt agtaaaggcg aggtttcgcc 180  
 atgttgcca ggctggtctc gaaatcctga cccagtgat ctgcctacct catcctctca 240  
 aagtgtcggg attacaggtg tgagccaccg cgccagcct taattttcaa aagacaaata 300  
 agcaaaaagc tttcccggtt cctctcccaa aacagcaatg agataactgc cttgtaatgt 360  
 ttgtttgctt tttaaaata ccaatttacc acttgctgga atcccagccc aggaaccagc 420  
 ctgtgaatgt ggggtggtca tggccctgtt ttatgatgac aattgggtgc ctctgtctc 480  
 ttccagaagg gtctgtctca aggtacattt tggcanactt caaagattct tttttctcaa 540  
 cttcattagc atctttgcca atccaaataa atatctgttc ccaagcatct agtaacatga 600  
 catcatcttc agctaaatca tcctgggtga actctccctg gaatctcttc aataacaaat 660  
 ctccc 665

<210> 631  
 <211> 698  
 <212> DNA  
 <213> Homo Sapiens

<400> 631  
 ctgaggagct ggtggtcttt gaggatttga atgtatttca ctgccaggaa gaatgtgtga 60  
 gcttggtacc tactcaacaa ctcacgtcag agaaggaaga tgacagcagt gtcggggaaa 120  
 tgatgttact ggtcaatggc agtaatcctg aagggtgaaga tcctgagagg gaacctgtan 180  
 aaaatgaaga ttatagagaa aagtcttcag atgatgatga aatggattct tccttggctc 240  
 ctgagcagcc tcccagatac caggaaaagg aacgactaaa tacatccatt ccacaaaaaa 300  
 ggaaaatgag aaatctgtta gttaccattg agaatgatac tcctctagag gaactctcaa 360  
 aatatgtaga catcantatt attgccctta ctcgaaatcg gaggacaagg agatgggtaca 420  
 cttgtccact gtgtgggaaa cagtttaatg aaagttctta cctcatttcc caccagagga 480  
 cccacactgg agaaaaaccc tatgactgtg ntactgtgg gaaaagcttc aatcatnaaa 540  
 caaacctcaa taaacatgag cgaattcnta caggagagaa accttattcc tgttctcagt 600  
 gtggaaaaaa ctccgctcng aattctcatc ggagtcgtcc tgaaggaatc catntaacgg 660



agaagatatt aagtgtccan aatgtgggaa aacctccc

698

&lt;210&gt; 632

&lt;211&gt; 466

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 632

atcacaaatt	gtaaataatta	ttgaaattga	ttgcaaattt	agatcacata	caaatagagag	60
tctgacattc	aactgttttc	ctatatcca	aagtaaaca	ttcctttcaa	cactcaagac	120
ttaaacaggt	attccttagag	ggttatatga	attgctatca	gaagctgttg	gctaacaagc	180
cagtaatttg	gttctttcac	canaacacag	ttccagataa	gcattcttgc	actatttctc	240
aantatgaat	ccccatgtgg	ggggaaaacg	gatatacttt	caatagacac	aagtcactct	300
ttgccttcca	agtaagcana	ctccagattc	atcttcaaa	tggtgggaaa	ngggatctgt	360
gacctgtnc	ttatcatata	acttcaaaaa	ggaaagctcc	ttantccaaa	aagcctanat	420
gctgaggtat	agcccttgaa	atgtttttct	cctgttnaat	ttccta		466

&lt;210&gt; 633

&lt;211&gt; 734

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 633

cacatacagt	ctttgtttta	atgtttattg	gtagaacacg	atcttcaatg	catactttgt	60
gtttatataa	actctacatt	ctcttaaagg	ttttcgtttt	gttttcaactg	gagattttta	120
gcctccaagt	gaacttaaca	tattgcctat	gcattctgatt	ctttatanac	ttttanattt	180
taaaactaaa	tttganaaac	catgcatact	gtatacctta	tttaataatc	caaanaattg	240
tttgcacttt	caaaaaagtt	acaaaaaggc	tgaacacaag	ttaaataacc	tatatgatgt	300
aaattttcca	tttctgaata	ctttttcagt	attatatatt	gcttgctgtc	taataagtta	360
gattgtcaga	nacgcttcag	taaattatct	ctactttaaa	attatatctg	aatccccctt	420
ctctganatg	aacttgccaa	tattaaacat	tgtgccatat	gcagtattan	cccaaaagct	480
taaataagaa	ccaaacttgt	agactgaata	ttttaacctt	aaaattatat	acctatatat	540
ncacctatgg	tatgctgcat	attaaattta	acatttcaag	taacatatat	atagcaaaaca	600
ttcagccaaa	tactctttca	tgaaaagata	ctgtccttaa	aataaaaagt	tantgaaaag	660
cttattttag	ccnaatgtct	aaatataant	nctaagccta	tgaaacttga	anctaaagtc	720
tgctgtntca	ttta					734

&lt;210&gt; 634

&lt;211&gt; 822

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 634

ctcctgtgct	tacacctgta	gaaaaacacc	agagcagaga	gtatctcaag	tgatgaagag	60
gttcatgaat	ctgtggattc	agacaatcag	caaaataaaa	aagttgaagg	tggatatgaa	120
tgtaaataatt	gtacttttca	aactccagat	ctaaatatgt	ttacttttca	tgtggattcg	180
gaacatccca	atgtagtgct	aaattcatcc	tatgtttgtg	tcgaatgcaa	ttttcttacc	240
aaaaggatag	atgcactttc	tgagcataat	ctgaaatata	acccaggaga	agagaatttt	300
aagttgacta	tggtgaaacg	taataaccag	acaatctttg	aacaaacaat	aatgatctg	360
acttttgatg	gtagttttgt	taaagaggag	aatgcagagc	aagcagaatc	tacagaagtt	420
tcttcttcgg	gaatatctat	cagtaaaact	cctatcatga	aatgatgaa	aaataaagt	480
gaaaaataaac	ggattgcagt	tcatcataac	tcagttgagg	acgttcctga	agagaaagag	540
aatgaaatca	aaccagaccg	tgaagaaatt	gtagaaaatc	caagttcttc	agcttctgaa	600
tctaatacaa	gtacttccat	tgtaaacaga	atacatccaa	gtactgccag	cacggtagtg	660
accagcagc	agtctctccc	tggattgggc	ccaggtgata	actgctgnt	ctgctccgcc	720

agaattctaa	tttgattccc	naagtcttaa	tcctgttna	tancatcccc	cctacaatgc	780
tgcnttggat	aacaaccccc	ttttactta	accctacan	cc		822

<210> 635  
 <211> 819  
 <212> DNA  
 <213> Homo Sapiens

<400> 635						
acccatttct	aacaattttt	actgtaaaat	ttttggtaa	agttctaagc	ttaatcacat	60
ctcaaagaat	agaggcaata	tatagcccat	cttactagac	atacagtatt	aaactggact	120
gaatatgagg	acaagctcta	gtggctatta	aacccctca	gaaagtctaa	gattcagaat	180
gtctccatca	tattagaaga	aaaatgtact	gtattaaaat	ttaaattgca	tttttacaag	240
ttgtttttta	attagtgttc	tatttacatt	gcanaacttc	caccaactgc	agtagtttaa	300
ctttggcaca	acattaagtt	ccatttcttt	tgggtattgg	atcctgcttt	ttgagtgtgt	360
atgccccaaa	acgtttttcaa	tgtcatcaaa	gattgggcaa	attcacagta	aatcagacat	420
cttgagttga	agaattgatt	ctccttcaac	gttttaggca	gatttcagtc	atctgattta	480
gacagcttcc	gtttcacatg	tcgtggaagt	cccaagtgtc	actatcatct	gtttcttctt	540
catcctcttc	ctgggtcatca	ataacttcat	cttctctctc	atcttctctc	aataattcta	600
tacctaattc	tgatcttctc	tgtctttctg	caaaccactc	tctgacctgc	tcatanccca	660
tatgtgattt	gttaacaaaat	tcatacaagt	cttgctcatt	aaaaaacttg	tgcttcagggt	720
tataatcctt	aantttttgcc	gttccagttt	taaattttat	gaatnaatgg	tccccgtgtc	780
cccagttggt	aattcctttt	ggctctctca	aggegcacca			819

<210> 636  
 <211> 704  
 <212> DNA  
 <213> Homo Sapiens

<400> 636						
aaaaagttaa	ttatttatct	tttttttttt	tttttttttt	ttggttaagg	tgaatgcact	60
tttggttttt	ggtcatgttc	ggttgggtcaa	anataaaaaac	taantttgan	anatgaatgc	120
aaaggaaaaa	aatattttcc	aaantccatg	tgaaattgtc	tcccattttt	tggtcttttg	180
gggggttcag	tttgggttgc	ttgtctgttt	ccgggttggg	gggaaagtgg	gttgggtggg	240
aggganccag	gttgggatgg	agggagttta	caggaagcan	acagggccaa	cgtcnaagcc	300
naattcctgg	tctggggcac	caacgtccaa	gggggccaca	tcnatnatgg	gcaggcgagg	360
ggtcttggtg	gttttgtatt	caatcactgt	cttgccccag	gtcccggtgt	gactcgtgca	420
nccatcgaca	gtgacgctgt	aggtgaancc	gctgttgccc	tcggcgagg	tctcgatctc	480
gttggaaccc	tggaggancc	gggccttctt	gaggttgcca	gtctgctggg	ccatgtaggc	540
cacgctgttc	ttgcantggg	angtgatggt	ctgggagcct	cgggtggacat	caggcgagg	600
aaggtcacct	ggatgccaca	tcngcanggt	cggaaacctg	gccgccatac	cccaactggg	660
aatccatcng	tcattgctctc	cccgaacaaa	aacatcctct	tgtt		704

<210> 637  
 <211> 693  
 <212> DNA  
 <213> Homo Sapiens

<400> 637						
gaaagcaaat	ttcttttaat	ganaactcaa	aattaaaactt	caaagggacc	caacgtcata	60
cttcatttca	gggacttgat	acaaaaaatt	tagtttgaac	tgctatttagc	aggtggcagg	120
agccaccttc	aatgaatctc	tcaaattgga	aaatactgct	tcaccacctg	ttggggataa	180
nttgcaaatg	gaataattta	gtatggtttg	tagctatttt	gatnaccacc	tcgcctgnat	240
accttcccat	aaccactctg	ctgggtcacca	cctcttccac	aagctcttcc	tgcaaatcct	300
cctctaaatc	cccactgttg	ctggttgctga	tattgtncct	tcgacatggc	tactttttatt	360

```

tcacattttac taaaaccaac attgtggtat ttctttttcca ttatcttctt cactgggtct 420
tcttccttaa aggtataataa gcaaaaccca cgcctcttat tgggtcttgtt gtccatgggg 480
agctctatgg attccacctc accaaaacca ccaaagtact cccttatttt ctcttcaggt 540
gtatctggan aaaggccacc ancnaaaatt ttttaaccgg ctcttttgtt tccatggctt 600
tgggcctttt angatcaatc accttcccca ttcaatttat gttctttttg gatccatgaa 660
cctttntcta cncctcccg aattccttaa ata 693

```

&lt;210&gt; 638

&lt;211&gt; 619

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 638

```

gcactctgaa gttagatcct atcacagggc gatcaagggg ttttggtttt gtgctattta 60
aagaatcgga gagtgtanat aagggtcatgg atcaaaaaga acataaattg aatgggaagg 120
tgattgatcc taaaagggcc aaagccatga aaacaaaaga gccggttaaa aaatttttgt 180
tggtggcctt tctccagata cacctgaaga gaaaataagg gactactttg gtggttttgg 240
tgaggtggaa tccatagagc tccccatgga caacaagacc aataagaggc gtgggttctg 300
ctttattacc ttttaaggaa aagaaccagt gaagaagata atggaaaaga aataccacaa 360
tggttggtctt agtaaagtgt aaataaaaagt agccatgtcg aaggaacaat atcagcaaca 420
gcaacagtgg ggtatctanag gaggatttgc angaagagct cgtggaagan gtgggtggccc 480
cactcaaaac tggaaccang gatatanrna ctattggaat cnaggctatg gcaactatgg 540
atatnacagc ccagggttacc gtggttntgg aagatatgac tncactgggtt acnacaacta 600
ctatggatat ggtgattat 619

```

&lt;210&gt; 639

&lt;211&gt; 694

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 639

```

cggcgcgccc attaaagcga ggaggangcg agagcgcccg ccgctgggtgc ttattctttt 60
ttagtgagcagg gggagagagc gggagtggtgc gccgcgcgag agtgggaggc gaagggggca 120
ngccagggan aggcgcagga gcctttgcag ccacgcgcgc gccttccctg tcttgtgtgc 180
ttcgcgaggt acagcgggcg cgcggcancg gcggggatta ctttgcgtgt agtttcgggt 240
cgcggcagcg gcgggtgtat tctcggcggc agcggcggag acactatcac tatgtcggag 300
gancanttcg gcggggacgg ggcggcgcca ncggcaacgg cggcggtagg cggctcggcg 360
ggcgaacang angganccat ggtggcgcg acacangggg cancgcgcg gcggggaaacn 420
gaccgggacc gggggcgga ccgntcttg angtccnaa gggggcnneg ccnaatccga 480
aggggcgaaa attgacccc tatgaaccaa gaagatgaat ggaaaatgtt tatangaagc 540
cttanctggg acactnccca gaaagatctg aaggactact ttccnaatt ttgggtgaaa 600
ttgttaaact gccctcttga aatttttnatn ctatccngg ggcnatcaaa ggggtttttg 660
gcttttttcc tatttttaac aaatcccga aaat 694

```

&lt;210&gt; 640

&lt;211&gt; 728

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 640

```

cgccactgcn gcaggaggcg tgaggggata aaaacattca gatggcagat cacagttttt 60
cagatggggt tccttcagat tccgtggaag ctgctaaaaa tgcaagtaac acagaaaagc 120
tcacagatca ggtgatgcag aatcctcgag ttctggcagc ttacaggag cgacttgaca 180
atgtccctca cacccttcc agctacatcg aaactttacc taaagcagta aaaagaagaa 240
ttaatgcatt gaaacaactt cagggtgagat gtgctcacat agaagccaag ttctatgaag 300

```

aggtacatga	cttggaaga	aagtatgcag	cgctatacca	gcctctcttt	gacaagagaa	360
gagaatttat	caccggcgat	gctgaacca	cagatgcgga	atcggaatgg	cacagtgaag	420
atgaagagga	agagaaattg	gctggagaca	tgaaaagtaa	agtagtcgtc	acagaaaaag	480
cagcggcaac	ggctgaagag	ccagatccca	naggaattcc	agagttctgg	tttaccatct	540
tcagaaatgt	ggacatgctg	agtgaattan	tccaggaaat	atgatgaacc	aatcttgaaa	600
acacctgcag	gatnttaaag	ttgaaatttt	ctgaccctgg	acagcctatg	tcttttgtgt	660
tagaattcca	ctttgaaccc	cacgactact	ttaccaactc	agtcctgaca	aaaaccttac	720
cagatgaa						728

&lt;210&gt; 641

&lt;211&gt; 732

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 641

acctaattag	atagaagttc	aggaatttct	atttcttttg	ggttgatgaa	ccacaggcta	60
gcataagtcc	actgtcaata	aatgtttggt	gtggccagac	ctccataaaa	gagatattcc	120
ctgtgttcac	aagtccctg	aagcttaggt	tttgagagaa	tattgttgag	tcactaggca	180
gggctcacat	aggaaactgg	caatcacctc	tgaaactgct	tcacagacac	ctgcttttcc	240
tgctctgttc	ctcanacttc	tcctcttcaa	gcgtattccc	cccacaacaa	ggacagcagc	300
ttggactaca	tatctggctg	atgatgtaat	aaaaagatta	ggcatggggg	tttcctaagc	360
cacaattcag	ggccactctg	caccaacaga	gataagcacc	caggtggaag	cccccttcc	420
ccgagcctca	tacattgtca	tcattctcta	tgccctccc	agtgaagtac	agcacagccc	480
gcgggactat	ccgctcacgg	aaaaagtgtc	caatttcaaa	atcagaagct	aatgtgaatt	540
caaaatcttc	atccagtgat	ctccatcccc	ggatgctttc	caatggattg	aagaaattga	600
aaaaggactc	attgggtact	gtttcgtaat	tgttctaaca	gtgcctcaac	cttatgettc	660
tgctttncnt	ggaaggtnnt	gaaagtaaca	ttcttncctt	cttccaantc	aattattnac	720
ccccgttcac	aa					732

&lt;210&gt; 642

&lt;211&gt; 582

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 642

gcttttcttc	ttctctctct	tctgattctg	gctcttgctt	tatttggtggc	tgctgcgcc	60
tctcagcttc	ttgttccatc	ctctggagct	ctgcactctg	atctggatgc	ccttctgcc	120
naaggcgctg	cctgatttcc	tcaagctcct	ccttctctct	cttccatctc	cgttcatctg	180
cttccatttc	cttttctcta	tcacgcaacc	ttttctgaaa	agcacttcc	ctgtaattat	240
tggggtcatc	tctatcatca	tcatagtctt	ctaanaattc	ttttagtcgt	ttagcttctt	300
tgccatttcc	tcttcttctt	tcttcttctc	tttcagcttc	tttctcatat	tcccggtttt	360
tctttcgttc	tctgatttcc	caattcttaa	ggcgctcttg	ataancagct	tcttctcttc	420
gganttttct	ttcaagtttt	cttcgttcgt	atgcactctc	ttcatcttct	tctcggtccc	480
gttttttgte	tttttctctt	tctcgctccc	gttctctctc	cnctctctct	ctcgtccccg	540
ttctcgttct	cgtctctntt	ctctctctct	ctctcttctc	cg		582

&lt;210&gt; 643

&lt;211&gt; 784

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 643

aagaaaagct	caagtttcca	agtctcttaa	gggagcgatt	aggcatgtca	gctgatccag	60
ataatgagga	tgcaacagat	aaagttaata	aagttgggtg	gatccatgtg	aagacattag	120
aagaaattct	tcttgaaaga	gccagtcaga	aacgtggaga	attgcaaaact	aaactcaaga	180

cagaaggacc	ttcaaaaact	gatgattcta	cttcagggag	caagaagctc	ctccactatc	240
cgtatcaaaa	ccttctctga	ggctctggct	gaaaaaaaac	atcggcagca	gggaagcaga	300
gagacnaaaa	agcnaaaagg	gatacaactt	gcatcaagct	aaagattgat	agtgaattaa	360
aaaaaacagt	agttttgcc	cccattgttg	ccagcagagg	acaatcagag	gagcctgcag	420
gtaaaacaaa	gtctatgcag	ggaggtgcac	atcaagacgc	tggaaganat	taaactggag	480
anggcactga	gggtgcagca	gagctctgag	agcagcacca	gctccccgtc	tcaacacgag	540
gccactccag	ggggcnaaggc	ggctgctgcg	aatcacnnnn	agaaccggga	tgaaagaaga	600
gaagancctt	ccgggaagg	aatgaagtgt	attctcagag	cngtattaga	acngaagcta	660
aagangctcc	gggtgagaac	nccggggttg	acctccctaa	aattccagtc	cagagatgtg	720
agacctgaaa	gagaaccctt	gccganaccg	ccgggaaagg	ganaaatccg	tcttgacccc	780
cttc						784

&lt;210&gt; 644

&lt;211&gt; 749

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 644

cctacatcag	ttttatttaa	aacacaaaca	agtattttctc	tttctgtaag	ggcaaatggt	60
tcaaataatg	cggaacacga	aacattgact	aatacaagtg	ctttaaatat	gaaacaaaat	120
tatttttttaa	aaaagcaaaa	naataaagaa	tatatacaaa	agggacctgn	aatctgtaag	180
gtgattccaa	aaacnaaata	antagaaaat	ccatggtgaa	acctgaacat	tctacctctg	240
ctttggagaa	gggctatcat	acaacattca	gtcagctgaa	natggattgg	tanagggtgtg	300
tctatacata	aacttcagtc	atttttgctt	gtgcanaatc	atcccaatct	tcccaanact	360
gaatgggcag	tcctgtggct	ttcttccttt	tccatattcc	caacaaggct	acgtgaagtt	420
caactcttga	tgagccgctt	acaacagcag	ttccttaggg	agccaacatg	acaggtgggt	480
canattttccc	tatgagaaac	aaaactggcc	acctacagca	aaatatcaaa	atgggtaagt	540
ccttccttcc	tcttcctcct	gatttatatac	aacatatctc	ctttcaagac	tattatttcc	600
atcatgctta	ttccttcaca	aatctaacc	ttgaggtgat	atgaaggaaa	ccancntcaa	660
aaaaaagaaa	actcaattcc	gaaatgaana	aaactgggcn	nggtatncaa	tacnccccan	720
aacatctcca	tatccttggc	ccagttacc				749

&lt;210&gt; 645

&lt;211&gt; 751

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 645

agactttcct	acatcagttt	tattttaaacc	acaaacaagt	atttctcttt	ctgtaagggc	60
aaatggttca	aataatgcgg	aacacgaaac	attgactaat	acaagtgcct	taaatatgaa	120
acaaaattat	tttttaaaaa	agcaaaaagaa	taaagaatat	atacaaaagg	gacctggaat	180
ctgtaagggtg	attccaaaaa	cgaaataagt	agaaaatcca	tggtgaaacc	tgaacattct	240
acctctgctt	tggagaagg	ctatcatata	acattcagtc	agctgaagat	ggattggtag	300
aggtgtgtct	atacataaac	ttcagtcatt	tttgcttggtg	cagaatcatc	ccaatcttcc	360
caanactgaa	tgggcagtc	tgtggcttcc	ttccttttcc	atattcccaa	caaggctacg	420
tgaagttcaa	ctcttgatga	gccgcttaca	acagcagttc	cttaggancc	caacatgaca	480
ggtgggtcag	atttccttat	gagaaacaaa	actggncacc	tacagcaaaa	tntcaaaatg	540
ggtgaagtcct	tccttcctct	tcctcctgat	tatntacaac	atatctcctt	tcaagantat	600
tatttccatc	atgcttattc	cttcccaaat	ctaaaccttg	aagggtgattt	gaagggaaac	660
cnccatccnn	aaaaagaaaa	acctattccc	aaattgaaaa	aaaactnggc	aggggtatata	720
atacaccccc	canaaaactcn	ccaattttcc	c			751

&lt;210&gt; 646

&lt;211&gt; 760

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 646

cctacatcag	ttttatttaa	aacacaaaca	agtattttct	tttctgtaag	ggcaaatggt	60
tcaataaatg	cggaacacga	aacattgact	aatacaagt	ctttaaatat	gaaacaaaat	120
tattttttta	aaaagcaaaa	gaataaagaa	tatatacaaa	agggacctgg	aatctgtaag	180
gtgattccaa	aaacnaaata	agtagaaaat	ccatggtgaa	acctgaacat	tctacctctg	240
ctttggagaa	gggctatcat	acaacattca	gtcagctgaa	natggattgg	tagaggtgtg	300
tctatacata	aacttcagtc	atTTTTgtt	gtgcanaatc	atcccaatct	tcccaanact	360
gaatgggag	tctgtgggt	ttcttccttt	tccatattcc	caacaaggct	acgtgaagtt	420
caactcttga	tgagccgctt	acaacagcag	ttccttagga	gccaacatga	caggtgggtc	480
aaatttccct	atganaaaca	aaactggcca	cctacagcaa	aatatcaaaa	tgggtaantc	540
cttccttctt	cttcctcctg	attatatata	acatatctcc	tttcaagact	attattccat	600
catgcttatt	ccttcacaaa	tctaaacctt	gaagtgatat	gaangaaacc	nccntccaga	660
aaagaaaact	cnantcanaa	atgaaaaaaa	ctggcaggta	tncaatacac	cccaaaaent	720
ctcaatntcc	tggcacanta	caatccattg	ttctgtctaca			760

&lt;210&gt; 647

&lt;211&gt; 1041

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 647

caaaggcgac	agctgcccac	tccgtcactg	tgaagctgca	ataggaaatg	aaactgtttg	60
cacattatgg	caagaagggc	gctgttttct	acagggtgtg	aggttttcggc	acatggagat	120
tgataaaaaa	cgcagtgaag	ttccttggtt	ttgggaaaat	cagccaacag	gatgtcaaaa	180
attaaactgc	gctttccatc	acaatagagg	acgatatggt	gatggccttt	tcctacctcc	240
gagcaaaaact	gtgttgccca	ctgtgcctga	gtcaccagaa	gaggaagtga	aggctagcca	300
acttttcagt	cagcagaaca	aattgtctgt	ccagtccaat	ccttcccctc	agctgcggag	360
cgttatgaaa	gtagaaagtt	ccgaaaatgt	tcctagcccc	acgcattccac	cagttgtaat	420
taatgctgca	gatgatgatg	aagatgatga	tgatcagttt	tctgaggaaag	gtgatgaaac	480
caaaacacct	accctgcaac	caactcctga	agttcacaaat	ggattacgag	tgacttctgt	540
ccggaaaacct	gcagtcaata	taaagcaagg	tgaatgtttg	aatttttgaa	taaaaactct	600
tgaggaaatt	aagtcaaaga	aaatgaagga	aaaatctaag	aagcaagggt	agggttcttc	660
aggagtttcc	aagtctttta	ctccaccctg	agcccgttcc	aagtcctgaa	aaagaaaatg	720
tcaggactgt	ggtgaaggac	agtaactctc	tccaacaaac	aanggagaaa	gaanccttgg	780
gtagatttag	tcctactgan	agacggggga	aacgaaaant	tcagcaagcg	gtgacaagtg	840
atcctccaat	aaagcgttac	cctgcacaaa	ggctagggaa	aaaaanttaa	ancccaaaaa	900
actaacattg	acaaaaccac	caaagaaagc	tcaagnttcc	aagtcacctc	agggaccgan	960
taagcatgtc	aaccggatca	anataatgng	gntgcaacag	ttaaagntta	aaaaattggg	1020
gaaattcagt	taaaacattt	g				1041

&lt;210&gt; 648

&lt;211&gt; 810

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 648

ccctacatca	gttttattta	aaacacaaac	aantatttct	ctttctgtaa	gggcaaatgg	60
ttcaaataat	gcggaacacn	aaacattgac	taatacaant	gctttaaata	tgaacaaaaa	120
ttatttttta	aaaaagcaaa	agaataaana	atatatacaa	aagggacctg	naatctgtaa	180
gctgattcca	aaaacnaaat	aantanaaaa	tcctaggtga	aacctgaaca	ttctacctct	240
gctttggana	agggtatca	tacaacattc	antcagctga	aaatggattg	gtaaagggtg	300
gtctatacat	aaacttcant	catttttctg	tgtgcaaaaat	catcccaatc	ttcccaaaac	360
tgaatgggca	gtcctgtggc	tttcttcctt	ttccatattc	ccaacaaggc	tacntgaant	420

tcaactcttg	atnagccgct	tacaacagca	gttccttagg	agccaacatg	acaggtgggt	480
caaattttccc	tatgaanaaa	caaaactggc	cacctacagc	aaaatatcaa	aatgggtaag	540
tccttccttc	ctcttcctcc	tgattatata	caacatatct	cctttcaaga	ctattatttc	600
catcatgctt	attccttcac	aaatctaaac	cttgagggtga	tatgaaggaa	accancatca	660
agaaaagaaa	accaattcan	aatgaanaa	aactggcagg	tntacaatac	accccananc	720
atctcaatat	ccctggcaca	gttacaattc	agtgttctgc	tacagcccat	aaaataaata	780
ttggcagctt	gaataancnc	atTTTTTccc				810

&lt;210&gt; 649

&lt;211&gt; 656

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 649

cccnacatca	nttttattta	aaacacaaac	aattatttct	cttncgttaa	gggcaaatgg	60
ttcaaataat	gcnnaacaca	aaacnttgac	taatacaatt	gctttaaata	tnaaacaaaa	120
ttatttttta	aaaaancaaa	aaaataaaaa	atatntacaa	aaggacctg	aaatctgtaa	180
nctnatncca	aaaacaaaat	aattaaaaaa	tccatggtna	aacctnaacn	tnctacctct	240
gcttnggaaa	agggctatca	tacaacntnc	antcanctna	aatggatng	gtaaaggtn	300
ntctatacat	aaacttcant	cattttngct	tgtgcaaaat	cancccaatc	tncccaaac	360
tnaatgggca	ntcctgtggc	ttncnccct	tnccatnnc	ccaacaaggc	tacttnaatt	420
tcaactcttn	ataanccgct	tacaacagca	ntnccttagn	anccaacatn	acaggtgggt	480
caaattcccc	tataaaaaac	aaaactggcc	ncctacanca	aatatcaaaa	atgggtaatt	540
ccttcctncc	tctnccncc	nattatatac	aacatttctc	ctttcaaaac	tattattncc	600
atcatgcttn	ttcctncaca	aatctaaacc	ttgangtgat	ttgaagggaac	cacctc	656

&lt;210&gt; 650

&lt;211&gt; 645

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 650

gaacttcccn	acnncatttt	tatttataaac	ncaaaacaatt	nttnnccttn	ctntangggc	60
aantggtnca	aatantgcgn	aacncaaaac	tttnactaat	acaattgctt	taaatntaaa	120
ncaaanntat	tttttataaaa	acaaaaaaa	taaaaaatnt	ttccaaangg	gacctgaaan	180
ctntaaccta	atccccaaaa	caaaaataatt	aaaaannccn	nggtnaancc	tnaacntnct	240
nccnctnctt	tgnaaaaggg	ctatcanaca	acntncattc	ncctaaaaat	gnatnggtaa	300
aggtttttct	anacataaac	ttcattcatt	ttggcttntn	caaaancacc	ccaanctncc	360
caaaactnaa	tgggcnncc	ntggcttntc	ccctttccca	tnncccaac	aaggctactt	420
naattncnac	ncttnataac	ccccttacia	caccattncc	ttagnacca	cataacaggt	480
gggtcaaatt	ncccnataaa	aaacaaanct	ggccctncc	ccaaaatncc	caaaggggta	540
ttcctnccn	ccctcccccc	ngnatatata	caacatntcc	cctttcanaa	atatattccc	600
ccacgcttat	tcncccaaaa	ntaancctt	gaagttattt	aagga		645

&lt;210&gt; 651

&lt;211&gt; 780

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 651

ccttgacctc	ccaaagtgt	gagattacag	gcctgagcca	ctgcaccttg	ccttccttac	60
ctcttttctc	cgacattttt	atgtttctaa	cattgaactc	taaggagct	gggtaacaaa	120
cacgccatat	gtatgcagaa	cacttaacag	aattatgcta	tggtgtctgt	ttttgtttgt	180
atttcttgte	cttgctgaag	attgacttga	aatcttaaac	taagttctcc	ctctttatag	240
gcgggtgacag	tgatcctcca	ttaaagcgta	gcctggcaca	gaggctaggg	aagaaagttg	300

aagctccaga	aactaacatt	gacaaaacac	caaagaaagc	tcaagtttcc	aagtctctta	360
aggagcgatt	aggcatgtca	gctgatccag	ataatgagga	tgcaacagat	aaagttaata	420
aagttggtga	gatccatgtg	aagacattag	aagaaattct	tcttgaaaga	gccagtcaga	480
aacgtggaga	attgcaaaact	aaactcaaga	cagaaggacc	ttcaaaaact	gatgattcta	540
cttcaggagc	aagaagctcc	tccactatcc	gtatcaaaac	cttctctgag	gtcctggctg	600
aaaaaaaaaca	tcngcagcag	ggaactgaag	agacaaaaaa	gccnaaagga	tacaacttgc	660
atcaagctaa	agattgatag	tgaaattaaa	aaaaacagta	attttngcca	cccattgttg	720
ccngcagaag	acaatcanaa	gaacctgcag	gtaaaacaaa	ntctatgcag	ggaggtgccc	780

&lt;210&gt; 652

&lt;211&gt; 518

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 652

gnacttncct	acatcatttt	tattttaaacc	acaaacaatt	ntttcncctt	ctgtangggc	60
aaatgggtca	aataatgcgg	aacacaaaac	nttnactaat	acaattgctt	taaatntnaa	120
acaaaattat	tttttaaaaa	ancaaaaaaa	taaaaaatnt	ttncaaaang	gacctgaaat	180
ctntaanctn	atnccaaaaa	caaaataaatt	naaaaaatcca	nggtgaaacc	tnaacntnct	240
nccnctgctt	tggaagagg	ctntcatata	acnttcattc	ncctaaaaat	ggattggtaa	300
angttttnt	atacataaac	tncattcatt	tttgcttntg	caaaatcanc	ccaanctncc	360
caaaactnaa	tgggcantcc	tntggctttc	tncctttccc	anatncccaa	caaggctact	420
tnaatttcaa	cncttnataa	nccgcttaca	acancatttc	cttaggancc	aacatnacgg	480
tggggtcaaat	cccctataaa	aaacaaaact	ggcncnct			518

&lt;210&gt; 653

&lt;211&gt; 490

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 653

gttaataaaag	ttggtgagat	ccatgtgaag	acattagaag	aaattcttct	tgaaagagcc	60
agtcagaaac	gtggagaatt	gcaaaactaaa	ctcaagacag	aaggaccttc	aaaaactgat	120
gattctactt	caggagcaag	aagctcctcc	actatccgta	tcaaaacctt	ctctgaggtc	180
ctggetgaaa	aaaaacatcg	gcagcaggaa	gcagagagac	aaaaaagcaa	aaaggataca	240
acttgcacat	agctaaagat	tgatagtga	attaaaaaaa	cagtagtttt	gccaccatt	300
gttgccagca	gaggacaatc	agaggagcct	gcaggtaaaa	caaagtctat	gcagggaggt	360
gcacatcaag	acgctggaag	aaattaaact	ggagaaggca	ctgaggggtgc	agcagagctc	420
tgagagcagc	accagctccc	cgtctcaaca	cnaggccact	ccaagggcaa	ggcggctgct	480
gcnaatcccc						490

&lt;210&gt; 654

&lt;211&gt; 359

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 654

cccantccn	ttttanttna	aancccaacc	aattnttccc	cttccgntan	gggcaatngn	60
tccaattatn	ncgaacncca	aaccttnaan	natnccaatt	ncttaaatnt	taaaccaaat	120
tnntttttta	aaaagccaaa	naattaagaa	ttttttccaa	agggaacnng	aatccnttag	180
ggtaatccca	aaaccaaatt	agttaaaaat	ccctggntaa	accnaacnt	tccnccnccn	240
ccttggaaaa	agggnnnccn	ncnaccttcc	atncnctntaa	aatgaatgg	ntaaagnttt	300
ttcnnnctt	aacntccatc	ctttttgnct	nttccaaanc	ctcccccanc	tccccaaaa	359

&lt;210&gt; 655



<211> 611  
 <212> DNA  
 <213> Homo Sapiens

<400> 655  
 tgaaaaaaa catcggcagc aggaancaga aagacnaaaa agcaaaaagg atactacttg 60  
 catcangcta angattgata gtgaaattaa aaaaacagta tttttgccac ccattgttgc 120  
 cancagagga caatcanagg agcctgcagg taaaannaag tctatgcagg aggtgcacat 180  
 caagacgctg gaagaaatta aactggagaa ggacttgagg gtgcagcana gctctgagag 240  
 cagcaccagc tccccgtctc aacacnaagc cactccatgg gcnangcggc tgctgcgant 300  
 cnccnaaaga ncagggatga angaagagaa gaaccttcag gaaggaaatg aatttgattc 360  
 tcagancatt attataactg aagctnnana ngcttcnggt gagaccacng ganttgacat 420  
 cactaaaaatt ccagtcaga gatgtgagac catgagagag aagcacatgc acaaaacanc 480  
 nngagagggg aaaaatcagtc ttgacacctc ttcggggaga tgtagcatct tgcggnaccc 540  
 aantggcaga gaaaccagtg ctactgctg tgccaggagt cacnccggcac ctgaccaagc 600  
 ggcttcccac a 611

<210> 656  
 <211> 634  
 <212> DNA  
 <213> Homo Sapiens

<400> 656  
 ccnaccatcag ttttatttaa aacacaaaca agtntttcnc tttctgtgag ggcaaatggt 60  
 tcaataaatg cggaacacna aacattgact aatacaantn ctttaaataat gaaacaaaat 120  
 tatttttttaa aaaancnaaa naataaagaa tatntncaaa agggacctgg aatctgtgag 180  
 ctgattccaa aaacnaaata anttnaaaat centggtgaa acctgaacat tctacctctg 240  
 ctttgaaaaa gggntatcat acaacattca gtncgtgaa aatggattgg taaaagtntn 300  
 tctatacata aacttcagtc atttttgctt gtncaaaatc atcccaatct tcccaaaant 360  
 gaatggggcag tctgtggtt ttcttccttt tccatattcc caacaaggnt acntnaantt 420  
 caactcttga nnanccgctt acaacagcag ttccttagga nccccatgac aggtgggtcn 480  
 aatttcccta tnaaaaacaa aactggggcc tacagcaaaa tatccaaatg ggtgagtcct 540  
 tccttcctct tcccctgant atatacacat atctccttcc aanaatanta tttcccatg 600  
 cttattcctt ccnaatcta aaccttgaag tgat 634

<210> 657  
 <211> 958  
 <212> DNA  
 <213> Homo Sapiens

<400> 657  
 gaaagaaaag catcatgtaa aaatgaaagc caagagatgt gccactcctg taatcatcga 60  
 tgaaattcta cctctaaga aaatgaaagt ttctaacaac aaaaagaagc cagaggaaga 120  
 aggcagtgt catcaagata ctgctgaaaa gaatgcatct tcccagaga aagccaaggg 180  
 tagacatact gtgccttgta tgccacctgc aaagcagaag tttctaaaaa gtactgagga 240  
 gcaagagctg gagaagagta tgaaaatgca gcaagagggt gtggagatgc ggaaaaagaa 300  
 tgaagaattc aagaaacttg ctctggctgg aatagggcaa cctgtgaaga aatcagttag 360  
 ccaggtcacc aaatcagttg acttcactt ccgcacagat gagcgaatca aacaacatcc 420  
 taagaaccag gaggaatata aggaagtga ctttacatct gaactacgaa agcatccttc 480  
 atctcctgcc cgagtgacta agggatgtac cattgttaag cttttcaacc tgtcccaagg 540  
 aaagaaaaga acatttgatg aaacagtttc tacatatgtg ccccttgac agcaagttga 600  
 agacttccat aaacgaaccc ctaacagata tcatgtgagg agcaagaagg atgatattaa 660  
 cctgttacc tccaaatctt ctgtgaccaa gatttgacga gaccacagg actcctgtac 720  
 tgcaaaacan acaccgtgca cgggctgtga cctgcaaaaa gtacagcaga gctggagggt 780  
 gaggagctnc gagaaattgc aaccantaca anttccaaag cacgtngaac cttgattccc 840

agaataactt ganggggtggg cccaaccttg cccaagaaaa ccacngtga aancaancca 900  
acggagccct antnggcttt gatttgggaa tttgggaaan gaatncaagg gagngag 958

<210> 658

<211> 816

<212> DNA

<213> Homo Sapiens

<400> 658

gggagggaaa gacaaaacgt atttattcca ggccaggtct taaaatgcac actgcacggt 60  
tcctgttgt tatcagcacc agtaaggaaa gaacgtgcct taacggcagc cccaccaga 120  
gcctgctgcy tggctgctgt gaggtcccc atgaatccac gcagtcttct tcctcactgg 180  
tgcagttggt gaggttttct accctcacag caaagggtac cttaactata aattcacggt 240  
atgcagagaa gaggacagaa tctgatttac tgattgttcc tcatttaaac catgacttaa 300  
tctctatctt aggatttaac tatctttatt ttctggttaa aatttttaaa aaaagtggg 360  
agaggggtgag agtcgtaagg ggcaatagca atagagatta cactgtgctg acacagagac 420  
taaattctag tcagagtga gaccatataa aaggccggct gatggtttaa aggaagtaac 480  
tacatggagt ctaatcgaga cattcatgan ttacatctca ttattagcct tagtaatgta 540  
agaaaacaat tctcaacaaa actgggagtc cacagttgtc aagtatgctt tctcangcac 600  
gggtaggtaa agtctggan aaatgggttc tctccatgcc caatgacaaa gcaagacggt 660  
cctaggtttg aagttaaaaa caggtcccaa ttgcccgggc ggtatccgcc agctcacagc 720  
tgaatttaan catggaaatc caatggaaaa attggganat acnggcacat tcanaaggct 780  
ggtcctttga cttatctcca naaccgggt actggc 816

<210> 659

<211> 726

<212> DNA

<213> Homo Sapiens

<400> 659

tgagaaaagt ggtacaaata ctgggaaaaa cctgctcttc tgcgttaagt gggagacaat 60  
gtcacaagtt aaaagctctt attcctatga tgccccctcg gatttcatca atttttcatc 120  
cttgatgat gaaggagata ctcaaaacat agattcatgg tttgaggaga aggccaat 180  
ggagaataag ttactgggga agaatggaac tggagggtt tttcagggca aaactcctt 240  
gagaaaggct aatcttcagc aagctattgt cacacctttg aaaccagttg acaacactta 300  
ctacaaagag gcagaaaaag aaaatcttgt ggaacaatcc attccgtcaa atgcttgctc 360  
ttccctggaa gttgaggcag ccatatcaag aaaaactcca gccagcctc agagaagatc 420  
tcttaggctt tctgctcaga aggatttga acagaaagaa aagcatcatg taaaaatgaa 480  
agccaagaga tgtgccactc ctgtaatcat cgatgaaatt ctacctcta agaaaatgaa 540  
agtttctaac ancacaaaaga agccagagga agaaggcagt gctcatcaag atactgctga 600  
aaagaatgca tcttcccaa gagaaagcca agggtagaca tactgtgcct tgtatgccac 660  
ctgcanagca gaagttttna aaangtactg angagcaang aatctggaga agagtatgaa 720  
aatgc 726

<210> 660

<211> 824

<212> DNA

<213> Homo Sapiens

<400> 660

aggatttaac tatctttatt ttctggttaa aatttttaaa aaaagtggg agaggggtgag 60  
agtcgtaagg ggcaatagca atagagatta cactgtgctg acacagagac taaattctag 120  
tcagagtga naccatata aaaggccggc tgatggttta aaggaagtaa ctacatggag 180  
tctaactcag acattcatga gttacatctc attattagcc ttagtaatgt aagaaaacaa 240  
ttctcaacaa aactggagtc cacagttgtc aagtatgctt tctcaggcac gggtaggtaa 300

aagtctggaan	aaatgggttc	tctccatgcc	caatgacaaa	gcaagacggt	cctaggtttg	360
agggttaagan	caggtcccat	tgcggggcgg	tatccgcagc	tcacagctga	ntttagcagt	420
ggaatcgagt	ggagaatttg	gggagataca	ggencagtc	gaggctggtc	acttgacttt	480
atctccagac	cctggtaact	gcgtattgga	tttgctttat	gcaccagttc	tctccgtagc	540
ctggccanct	cctctttttt	ctgctcttcc	tctgtagtc	tggcctcctc	caactgctgg	600
gctttctggg	cttctacctc	agccattctc	ttctccagct	ccctgccgct	ctttggctct	660
ctctcagtag	cccactgaaa	angtccctga	acnaaaaaaa	ccanaaaanng	gccctcacaa	720
ctgatttcnt	ctctttcttg	gggaaccaag	ggcccttgaa	aaaanaaaacg	gtgtttggaa	780
caaacntga	aacaagcngc	ctccttctgc	ctgtcccaat	tcct		824

&lt;210&gt; 661

&lt;211&gt; 399

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 661

ggtttgnagg	gaaaaanaaa	actttttttt	cccagnccag	ttcttaaant	nccccnngcn	60
nggtccctn	tnttttttnc	ccccattaag	gaaaaaactt	gcntnancgg	nagccccccc	120
caaaacctnc	tgcttggtg	ctttaaggnc	cccataannc	ccccatnnt	cctccccac	180
tggtncattg	gtnaggtttc	ctccccccn	ccaaaggmnt	ccttacntat	aaatcccngg	240
tttncaaaaa	aaaananaaa	accaatttcn	gatnntcccc	cttnaancca	gnacttaatc	300
cctntctnag	gattnaacaa	cctttttttt	cgggttaaaa	tttttaaaaa	aattngggaa	360
anggttaaat	ccttaggggg	aatnccnata	aaaattacc			399

&lt;210&gt; 662

&lt;211&gt; 826

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 662

gtcaaatgct	tgcttctccc	tggaagttga	ggcagccata	tcaagaaaaa	ctccagccca	60
gcctcagaga	agatctctta	ggctttctgc	tcagaaggat	ttggaacaga	aagaaaagca	120
tcatgtaaaa	atgaaagcca	agagatgtgc	cactcctgta	atcatcgatg	aaattctacc	180
ctctaagaaa	atgaaagttt	ctaacaacaa	aaagaagcca	gaggaagaag	gcagtgtctca	240
tcaagatact	gctgaaaaga	atgcatcttc	cccagagaaa	gccaagggtta	gacatactgt	300
gccttgtatg	ccacctgcaa	agcagaagtt	tctaaaaagt	actgaggagc	aagagctgga	360
gaagagtatg	aaaatgcagc	aagaggtggg	ggagatgcgg	aaaaagaatg	aagaattcaa	420
gaaacttgct	ctggctggaa	tagggcaacc	tgtgaagaaa	tcagtgaagc	aggtcaccaa	480
atcagttgac	ttccacttcc	gcacagatga	gcgaatcnaa	caacatccta	ngaaccagga	540
ggaatataag	ggaagtgaac	ttacatctg	aactacgaaa	gcatacctca	tctcctgccc	600
gaantgacta	aggggatgtt	ccattgttaa	gcctttcaac	ctgtcccngg	gaaagaanag	660
aacntttgat	gaaacagttt	ctacatatgt	gccccttgcc	cngcaagttg	aagacttccn	720
taancgaacc	ctnactgatt	tcttttgang	aaccagaang	gntgattttt	cctgttttcc	780
ctccaatctt	ctgtgaacaa	gatttggccg	aanacccccg	aacccc		826

&lt;210&gt; 663

&lt;211&gt; 770

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 663

gggaaagaca	aaacgtat	attccaggcc	aggctcttaa	atgcacactg	cacggttccc	60
tggtgttatc	agcaccagta	aggaaagaac	gtgccttaac	ggcagcccca	cccanagcct	120
gctgcgtggc	tgctgtgagg	ctccccatga	atccacgcag	tcttcttcc	cactggtgca	180
gttggtgagg	ttttctaccc	tcacagcaaa	gggatcccta	actataaatt	cacggtatgc	240

anagaanagg	acagaatctg	atttactgat	tgttcctcat	ttaaaccatg	acttaatctc	300
tatcttagga	tttaactatc	tttattttct	ggttaaaatt	tttaaaaaaa	gtggggagag	360
ggtgagagtc	gtaaggggca	atagcaatag	agattacact	gtgctgacac	agagactaaa	420
ttctagtctg	agtgaagacc	catataaaag	gccggctgat	ggtttaaagg	aagtaactac	480
atggagtcta	atcgagacat	tcatgagttt	catctcatta	ttagccttag	taatgtaaga	540
aaacnattct	caacaaaact	ggagtcacac	gttgcaant	ntgctttctc	aggcacgggt	600
aggtnaaaat	ctgganaaat	gggttctctc	catgccaat	gacaanacan	anggtcctag	660
gtttgaagtt	aaaaacangt	cccattgccg	gcggtatccg	cagctcacag	ctgaatttac	720
cngtggaatc	aantggaaaa	tttgggaaaa	tacnggccca	atcaaaaagg		770

&lt;210&gt; 664

&lt;211&gt; 593

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 664

gaaganctga	gcagcacagc	actggtgaag	aagagctgcc	tggcggagct	cctccggctt	60
tacacaaaaa	gcagcagctc	tgatgaggag	tacatttata	tgaacaaagt	gaccatcaac	120
aagcaacaga	atgcagagtc	tcaaggcaaa	gcgcctgagg	agcagggcct	gctacccaat	180
ggggagccca	gccagcactc	ctcggccctc	cagaagagcc	ttccagacct	cccgccaccc	240
aagatgattc	cagaacggaa	acagcttgcc	atcccaaaga	cggagtctcc	agagggctac	300
tatgaagagg	ctgagccata	tgacacatcc	ctcaatgagg	acggagaggg	tgtgagcagc	360
tcctacgagt	cctacgatga	anaggacggc	agcaagggca	agtcggcccc	ttaccantgg	420
ncctcgccgg	aggccggcat	cganctgatg	cgtgacggcc	gcntctgcgc	cttctctgtg	480
cgcaagaaag	tggctgggac	agtgggcca	gcagctctgt	gtcatcnagg	acaacaggct	540
tctgtgctnc	naatcctcca	aggaccccng	ccctcagctg	gacgtgaacc	tac	593

&lt;210&gt; 665

&lt;211&gt; 1024

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 665

aagagattga	agcaaatgaa	tggaagaaga	aatacgaaga	gacccggcaa	gaagttttgg	60
agatgaggaa	aattgtagct	gaatatgaaa	agactattgc	tcaaatgatt	gaagatgaac	120
aaaggacaag	tatgacctct	cagaagagct	tccagcaact	gaccatggag	aaggaacagg	180
ccctggctga	ccttaactct	gtggaaagg	ccctttctga	tctcttcagg	agatatgaga	240
acctgaaagg	tgttctggaa	gggttcaaga	agaatgaaga	agccttgaag	aaatgtgctc	300
aggattactt	agccagagtt	aaacaagagg	agcagcgata	ccaggccctg	aaaatccacg	360
cagaagagaa	actggacaaa	gccaatgaag	agattgctca	ggttcgaaca	aaagcaaagg	420
ctgagagtgc	agctctccat	gctggactcc	gcaaagagca	gatgaagggtg	gagtcctctg	480
aaagggccct	gcagcagaag	aaccaagaaa	ttgaagggaac	tgacaaaaat	ctgtgatgag	540
ctgattgcaa	agctgggaaa	gactgactga	gacactcccc	ctgttagctc	aacagatctg	600
catttggtctg	cttctcttgt	gaccacaatt	atcttgccct	atccaggaat	aattgcccct	660
ttgcaganga	aaaaaatata	cttaaaaaaa	gcacatgcct	actgctgcct	gtcccgtttt	720
gctgccaatg	caacagccct	ggaagaaaa	cctatanggn	tgcatagtct	aaaaaggagg	780
ttgtngactn	gacagtgtctg	ggagcctnct	agtttcccc	cnatgaaagg	ttcccttagg	840
ctgctgagtt	tggggtttgt	gatttaacct	taagtttgtt	ttaaagtcca	ncttaacttt	900
cccaaattgt	gtttaaaaat	tgtaacnccc	cctttgggg	cttcccaaca	accggtccga	960
tttttttgg	gatcggttta	acccttttaa	tttttttagta	nccagtgggg	tttaatttag	1020
ggga						1024

&lt;210&gt; 666

&lt;211&gt; 734

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 666

```

gagacaagat cttgctgtca cccaggatgg agtgcagtgg catgatcatg gctcactgca      60
gccttgacct cccaggctcc cacctcagcc tcccaagtag ctgggaccac aggcacgtgc      120
caccatgccc agctaatttt tatttttggt nanacaaggt ttcaccatgt tgcctaggta      180
ggtttcaaac tcctggactc aagtgatcct cctgcctcgg ccttccacag tgttgggatt      240
acaggaataa gccactgtgc ccggcccttt ttctcttctg taacagantt tattactgcc      300
tagctagcag gttatttggc cctcacatgt gttgaggcaa actctatact atattcttac      360
tctccanagt tccaaaatcc tttattttta aanaaaaata acaaacata cttcattctg      420
cccagtatat tctcttgatc tgtacaagct acgattttta ttctcttttg gagaggaagc      480
atctgttaag ttogaatggg ggatatttcc tcataacggg catggctgan aagccaggac      540
aattatcact taacgaaggc ctttttggtc tcctgtgca tcagcttcat tcaactgggt      600
caggttctta aggggtctct tccaccaatg tgctagggaa gggctgccat cacctctgtt      660
taacacatag ctactttctt aaaccnataa gcttaaaaaa gangactatg gaattaccaa      720
tggaaggcgt ataa                                     734

```

&lt;210&gt; 667

&lt;211&gt; 592

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 667

```

gttatgaana cttttccaaa ttcatttgta tttctgttaa atttattttt tacttttaga      60
gtggctatca ttataatgta atttaaaatt atatttgtaa aagtgactat tggagtgaag      120
acgaattttg tttatanatc tatgataaat gcattctccc tntaggaggt agaanagtat      180
acagctgtnt ataataagct tcgctatgaa catacatttc tcaagtcaga atttgaacac      240
cagaaggag agtatgcacg tnttttagat gaangaaacn ataaactatg aatcagagat      300
ngcaanactg gaggaagatn aagaagaact acgtanccag ctgcttaatg tngatctcac      360
anaagacagc aaacgagtgg aacaacttgc tcgagaaaaa gtctatttgt gtccaaaatt      420
aagangttta gaggctgaag taccngaatt aaaggctgaa naggagaatt ctgangctca      480
gggtgaaaaa gcccaanaaa tacacgtgcg gcagtgggct gagatgcacg ctacagtcag      540
atccctggag gctgacaanc aatcanctaa tttacgggca naacgcttgg aa          592

```

&lt;210&gt; 668

&lt;211&gt; 373

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 668

```

aaaaaaaaat taagctcttt aattatgtgc acacagattt tagaaaaggt agccttttgt      60
atatanatac ctttacattc tttaggntga nttttaaatt gtcacttttt ttcaactaca      120
gtttttgtnt atagtaaacc anaanatgtg tntggacct gttatggnca agcatctcaa      180
agatgaagan agaattaatg atagttatat ttcactcaaa atgccaaaaa aaaaaattca      240
acaaagtaaa aatttttaaa cttgactcta actagtctct ttttgtttta cattctcaaa      300
ccattgtnaa atattctaaa tatctctgaa aatttctctt ttaatgcttc acttgntnaa      360
tcttaaaatc ctg                                     373

```

&lt;210&gt; 669

&lt;211&gt; 661

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 669

```

cacacctggg ggtcctgaag acagcccagg acccagggat ctccccagc cagagtctgt      60

```

```

gtgcggaaag ttccagaggg ctcagtgcag gctccctgtc ggagagtgcg gttgggcccc 120
tggaggcatg ctgcctggtc atcctggctg cagagagcaa ggtcgctgcg gaggagcttt 180
gctgtctgct aggccaggtc ttccagggtg ttacacgga gtccaccatc gactttcttg 240
acagagcgat atttgatggg gcctctaccc cgaccacca cctgtccctg cacagcgatg 300
actctcttac aaaagtggac attaaggaga cctacgaggt ggaagccagc actttctgct 360
tccctgaatc tgtggatgtg ggtggtgcat caccacacag caagaccatc agtgagagcg 420
agctgagcgc cagcgccact gagctgctgc aggactacat gctgacgctg cgcaccaagc 480
tgtcatcaca ggagatccag cagtttgtag cactgctgca cgagtaccgc aatggggcct 540
ctatccacga nttctgcatc aacctgcggc agctctacgg ggacagccgc aagttcctgc 600
tgcttggtct gaagcccttc atccctgaaa angacagcca gcacttcnag aacttcctgg 660
a

```

&lt;210&gt; 670

&lt;211&gt; 401

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 670

```

aaattattca cattgcagta aacttctttt taaggctctt gaaagttaca ataggaacat 60
catgtgcaaa actgacagcc gtccaagggc ccagccgaca ggactggctc tccctgcccg 120
ctcgcccggg ccctccccga gcggggacac actgcagggc ttggctgaac cctgggtggc 180
aaggcaana nccttccacc ccgcactgag gctcgtgtcc ctggcagct cctgctcct 240
tcacagtaaa ngacctgggc cgcccggggc catctgcacc gggcgccctc cctggccac 300
caccaagggc tgacacgcag gtctgggcag ctcttcttgg gaaggcctat gacgactgcg 360
ccgaagggtg ggggtgcccc ccatccactg tccatcatgc c 401

```

&lt;210&gt; 671

&lt;211&gt; 1347

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 671

```

aagatcagcg atatcacgcg tccccggag catcgctgc aggagccatg gcgcgggagc 60
tataccacga agagtctgcc cgggcgggca agcaggcggg gctgcaggtc tggaggattg 120
agaagctgga gctggtgccc gtgcccaga gcgctcacgg cgacttctac gtcggggatg 180
cctacctggt gctgcacacg gccaaagcga gccgaggctt cactaccac ctgcacttct 240
ggctcggaag ggagtgttcc caggatgaaa gcacagctgc tgccatcttc actgttcaga 300
tggatgacta tttgggtggc aagccagtgc agaatagaga acttcaagga tatgagtcta 360
atgactttgt tagctatttc aaaggcggtc tgaaatacaa ggctggaggc gtggcatctg 420
gattaaatca tgttcttacg aacgacctga cagccaagan gctcctacat gtgaagggtc 480
gtanagtggg gagagccaca gaattccct tagctgggac agtttcaaca aggtgactg 540
cttcatcatt gaccttggca ccgaaattta tcanttgggt tggttcctcn tgcaacaaat 600
atgaacgtct gaaggcaaac caggtagcta ctggcattcg gtacaatgaa aggaaaggaa 660
ggcttgaact aattgtcgtg gaanaaggaa gtgaaccctc agaacttata aaggtcttag 720
gggaaaagcc agagcttcca gatggagggt atgatgatga cattatanca gacataagta 780
acaggaaaat ggctaaacta tacatgggtt cagatgcaag tggctccatg agagtgactg 840
tgggtggcana agaaaacccc ttctcantgg caatgctgct gtctgaagaa tgctttattt 900
tggaccacgg ggctgcaaaa caaattttcg tatggaaagg taaagatgct aatccccaa 960
agaggaaggc tgcaatgaag acagctgaag aatttctaca gcaaatgaat tattccaaga 1020
atacccaaat tcaagtctt ccagaaggag gtgaaacacc aatcttcaa cagtttttta 1080
aggactggag agatnaacga tcagagtgat ggcttcggga aagtttatgt cacagagaaa 1140
gtggctcaan ttnaacnaat tccctttgat gctcnnaat tacncagttc tccgcagatg 1200
gcagcccagc acaatatggg ggtgatgggt tctggccaag tggaaatttg gctgtgncaa 1260
aacaatggta ggatccaagt tgaccnnaac tccatgggtg actcccatgg tggtgactgc 1320
tacttcatac tctacaccta tccctga

```

<210> 672  
 <211> 3441  
 <212> DNA  
 <213> Homo Sapiens

<400> 672

atgtttctaa	cattgaactc	taaggaagct	ggtgaacaaa	cacgccatat	gtatgcagaa	60
cacttaacag	aattatgcta	tgttgtctgt	ttttgtttgt	atttcttgtc	cttgctgaag	120
attgacttga	aatctttaa	taagttctcc	ctctttatag	gcggtgacag	tgatcctcca	180
ttaaagcgta	gcctggcaca	gaggctaggg	aagaaagttg	aagctccaga	aactaacatt	240
gacaaaacac	caagaaaagc	tcaagtttcc	aagtctctta	agggagcgat	taggcatgtc	300
agctgatecca	gataatgagg	atgcaacaga	taaaagtta	aaagttagtg	agatccatgt	360
gaagacatta	gaagaaattc	ttcttgaaag	agccagtcag	aaacgtggag	aattgcaaac	420
taaactcaag	acagaaggac	cttcaaaaac	tgatgattct	acttcaggag	caagaagctc	480
ctccactatc	cgtatcaaaa	ccttctctga	ggtcctggct	gaaaaaaaac	atcggcagca	540
ggaagcagag	agacaaaaaa	gcaaaaagga	tacaacttgc	atcaagctaa	agattgatag	600
tgaaattaaa	aaaacagtag	ttttgccacc	cattgttgcc	agcagaggac	aatcagagga	660
gcctgcaggt	aaaacaaagt	ctatgcaggg	aggtgcacat	caagacgctg	gaagaaatta	720
aactggagaa	ggcactgagg	gtgcagcaga	gctctgagag	cagcaccagc	tccccgtctc	780
aacacgaggc	cactccaagg	gcaaggcggc	tgctgcgaat	ccccaaaaga	acagggatga	840
aagaagagaa	gaaccttcag	gaaggaaatg	aatttgattc	tcagagcatt	attataactg	900
aagctaaaga	agcttcaggt	gagaccacag	gagttgacat	cactaaaatt	ccagtcaaga	960
gatgtgagac	catgagagag	aagcacatgc	acaaaacaac	aggagagggg	aaaatcagtc	1020
ttgacacctc	ttcggggaga	tgtagcctct	tgcaataccc	aagtggcaga	gaaaccagtg	1080
ctcactgctg	tgccaggaat	cacacggcac	ctgaccaagc	ggcttcccac	aaagtcattc	1140
cagaaggtgg	aggtagaaac	ctcagggatt	ggagactcat	tattgaatgt	gaaatgtgca	1200
gcacagacct	tggaaaaaag	gggtaaagct	aaacccaaag	tgaacgtgaa	gccatctgtg	1260
gttaaagttg	tgatcatccc	caaattggcc	ccaaaacgta	aggcagtgga	gatgcacgct	1320
gctgtcattg	ccgctgtgaa	ccactcagct	ccagcagtg	cctacaggaa	ccccagcca	1380
aaaaggcagc	tgtggctgtt	gtcccgttg	tctctgagga	caaactcagtc	actgtgcctg	1440
aagcagaaaa	tcctagagac	agtcttctgc	tgccctccaa	ccagtcctct	tcagattcct	1500
cacccccgga	ggtgtctggc	ccttctctcat	cccaaatgag	catgaaaact	cgccgactca	1560
gctctgcctc	aacaggaaag	ccccactct	ctgtggagga	tgattttgag	aaactaatat	1620
gggagatttc	aggaggcaaa	ttggaagctg	agattgacct	ggatcctggg	aaagatgaag	1680
atgaccttct	gcttgagcta	tcagaaatga	ttgatagctg	aagggtggta	gtgaggacac	1740
tttaaaaaaa	aatcgccaaa	aaactggact	tagtttcate	tattgtaaca	tttacctgag	1800
atgatcattt	cttttagtcta	gaatttgccc	caaatcagaa	gtatacctct	gaattatctg	1860
tatgtgtcct	ggattccttg	gggtcagatt	tttaaagtta	ctttataacc	attttgtcca	1920
tttgatgcc	ttgtttatca	tcttttgaga	aaaaagttct	gtcataccct	tctctccaca	1980
aaaaagagac	tgagaggag	atcaagtga	aggttgcaag	cgaacttagt	gactccttga	2040
ggtgtttgtc	agttttggct	tttttcttct	ttgtgtatt	ctttatgtat	tgtcttgatg	2100
tacttaatat	tacctgagtt	tgaaatggat	gaagacagct	gctaccatta	aggaccaa	2160
tttatgctac	cactaaacaa	aaatacccac	tcagtctgtg	ttaaattgta	tgtcttttta	2220
aagggtattt	aagattcaac	taagctttaa	agagggtgta	gcagctcagg	aagcctgtaa	2280
tgtgggcata	actctttgga	cctgatcttg	atgcttctgc	tgctctgtta	gcctctgaag	2340
agcaatatct	aattttattat	tactgtaatt	ttttaaaagg	ctttaaagtg	cctcaggggt	2400
cccctgaaac	taatttttcta	tttctgggat	tccttggtat	cattatatga	gatggtgaca	2460
tgattagagg	aattcttttt	tagtatgaaa	attgtccctt	ttcttcttca	gtacttgctt	2520
ccttgctggc	attgaattaa	cacagggaca	aaatttggtt	aattttttat	ttctaactct	2580
cccaacaaac	ccctgttgcc	cagtatttgt	ttggtggcct	ttaaccacct	gagggaaaaa	2640
atgagcttat	tcaagctgcc	aatattttat	tatgggctgt	agcagtacac	tgaattgtac	2700
tgtgccaggg	atattgagat	gctctggggg	tgtattgtat	acctgccagt	tttcttcatt	2760
tctgaattga	gttttctttt	cttgatgttg	gtttccttca	tatcacctca	aggttttagat	2820
ttgtgaagga	ataagcatga	tggaataaat	agtcttgaaa	ggagatatgt	tgtatataat	2880
caggaggaag	aggaaggaag	gacttaccca	ttttgatatt	ttgctgtagg	tggccagttt	2940

tgtttctcat	agggaaatnt	gacccacctg	tcatgttggc	tccctaagga	actgctgttg	3000
taagcggctc	atcaagagtt	gaacttcacg	tagccttggt	gggaatatgg	aaaagggaaga	3060
aagccacagg	actgccatt	cagttttggg	aagattggga	tgattttgca	caagcaaaaa	3120
tgactgaagt	ttatgtatag	acacaccttt	accaatccat	nttcagctga	ctgaatgttg	3180
tatgatagcc	cttctccaaa	gcagaggtag	aatgttcagg	tttcaccatg	gattttctac	3240
ttatttcgtt	tttggaatca	ccttacagat	tccagggtccc	ttttgtatat	attctttatt	3300
cttttgcttt	tttaaaaaat	aattttgttt	catatttaaa	gcacttgtat	tagtcaatgt	3360
ttcgtgttcc	gcattatttg	aaccatttgc	ccttacagaa	agagaaatac	ttgtttgtgt	3420
tttaaataaa	actgatgtag	g				3441

&lt;210&gt; 673

&lt;211&gt; 1016

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 673

gtcaaagtct	tgttcttccc	tggaagttga	ggcagccata	tcaagaaaaa	ctccagccca	60
gcctcagaga	agatctctta	ggctttctgc	tcagaaggat	ttggaacaga	aagaaaagca	120
tcatgtaaaa	atgaaagcca	agagatgtgc	cactcctgta	atcatcgatg	aaattctacc	180
ctctaagaaa	atgaaagtgt	ctaacaacaa	aaagaagcca	gaggaagaag	gcagtgtctca	240
tcaagatact	gctgaaaaga	atgcattctc	cccagagaaa	gccaagggtg	gacatactgt	300
gccttgatg	ccacctgcaa	agcagaagtt	tctaaaaagt	actgaggagc	aagagctgga	360
gaagagtatg	aaaatgcagc	aagaggtggt	ggagatgcgg	aaaaagaatg	aagaattcaa	420
gaaacttgct	ctggctggaa	tagggcaacc	tgtgaagaaa	tcagttagcc	aggtcaccaa	480
atcagttgac	ttccacttcc	gcacagatga	gcgaatcaaa	caacatccta	agaaccagga	540
ggaatataag	gaagtgaact	ttacatctga	actacgaaag	catccttcat	ctcctgcccg	600
agtgactaag	ggatgtacca	ttgttaagcc	tttcaacctg	tcccaaggaa	agaaaagaac	660
atgtgatgaa	acagtttcta	catatgtgcc	nccttgca	gcaagttgaa	gacttccata	720
aacgaacccc	taacagatat	catttgagga	gcaagaagga	tgatattaac	ctgttaccct	780
ccaaatcttc	tgtgaccaag	atttgacag	accacagac	tcctgtactg	caaaccaaac	840
accgtgcacg	ggctgtgacc	tgcaaaagtt	acagcagagc	tggaggctga	ggagctcgag	900
aaattgcaac	aatacaaat	caaagcacgt	gaacttgatc	ccagaatact	tgaaggtggg	960
cccattctgc	ccaagaaacc	acctgtgaaa	ccacgcccag	ccctatgcct	cgtgcc	1016

&lt;210&gt; 674

&lt;211&gt; 1135

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 674

aggaattggg	acaggcagaa	ggaggcnct	tgtttcangg	tttgttccaa	acaccgtttt	60
ttttttcagg	ggcccttggg	tccccaagaa	agagangaaa	tcagttgtga	gggccnnttt	120
ntggtttttt	tngttcaggg	acnttttcag	tgggtactg	agagagagcc	aaagagcggc	180
agggagctgg	agaagagaat	ggctgaggtg	gaagcccaga	aagcccagca	gttgaggagg	240
gccagactac	aggaggaaga	gcagaaaaaa	gaggagntgg	ccaggctacg	gagagaactg	300
gtgcataagg	caaataccat	acgcaagtac	cagggtctgg	agataaagtc	aagtgaccag	360
cctctgactg	ngcctgtatc	tcccaaat	ctccactcga	ttccactgct	taaattcagc	420
tgtgagctgc	ggataccgcc	cggcaatggg	acctgttttt	aacttcaaac	ctaggaccgt	480
cttgctttgt	cattgggcat	ggagagaacc	catttntcca	gacttttacc	taccctgccc	540
tgagaaagca	tacttgacaa	ctgtggactc	cagttttgtt	gagaattgtt	ttcttacatt	600
actaaggcta	ataatgagat	gtaactcatg	aatgtctcga	ttagactcca	tgtagtact	660
tccttttaaac	catcagccgg	ccttttatat	gggtcttcac	tctgactaga	atttagtctc	720
tgtgtcagca	cagtgtaatc	tctattgcta	ttgccctta	cgactctcac	cctctcccca	780
ctttttttta	aaattttaac	cagaaaataa	agatagttaa	atcctaagat	agagattaag	840
tcattggttta	aatgaggaac	aatcagtaaa	tcagattctg	tcctcttctc	tgcataccgt	900



gaatttatag	ttaaggatcc	ctttgctgtg	agggtagaaa	acctcaccaa	ctgcaccagt	960
gaggaagaag	actgcgtgga	ttcatgggga	gcctcacagc	agccacgcag	caggctctgg	1020
gtggggctgc	cgtaaaggca	cgttctttcc	ttactgggtgc	tgataacaac	agggaaaccgt	1080
gcagtgtgca	ttttaagacc	tggcctggaa	taaatacgtt	ttgtctttcc	ctccc	1135

&lt;210&gt; 675

&lt;211&gt; 1067

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 675

atttttaaga	aacttcacag	agctgcttca	gtcggggatt	tgaagaagct	gaaggaatac	60
cttcagatca	agaaatatga	tgtaaataatg	caggacaaaa	aatacagaac	acctttgcac	120
ctagcctgtg	ctaattggaca	tacagatgtt	gtacttttcc	taattgagca	acaatgcaaa	180
ataaatgtcc	gggatagtga	aaacaaatcc	ccattgatta	aggcagtaca	gtgtcaaaat	240
gaggattgtg	cctactattc	ttctaaactt	tgggtgcagac	ccagatctga	gggatattcg	300
ttataataact	gttcttcact	atgctgtttg	tgggtcaaagt	ttgtcattag	ttgaaaaact	360
gcttgaatac	gaagctgac	ttgaagcgaa	aaataaggat	gggtatactc	cactattagt	420
tgccgttatt	aacaataatc	caaaaatggg	aaaatttctt	ctggagaaaag	gggctgatgt	480
gaatgcttca	gataattatc	aaagaacagc	ccttattctt	gctgtcagtg	gtgaaccacc	540
atgttttagta	aagcttcttc	ttcagcaagg	tgtggaatta	tgttacgaag	gtattgtgga	600
ttcacagctg	aggaatatgt	ttatttccat	ggttttactg	catagatacc	cacaattcac	660
tgcgagccat	ggaaagaaga	aacatgctaa	atagacacct	tattcttggc	actacatgtg	720
actaaaggaa	gatattggaac	ccatttctac	aatttctttg	ccgcttctct	gaattggaaa	780
aatgtacttt	gaaagaaccg	gttaagtga	ctatgataat	atttttgctg	actaccaggt	840
tgaagaaaaa	gtttcggttaa	ttggatggga	tttttttttt	tcacgttaga	agaatgaatg	900
aagaaatttt	aaaagataaa	catttatattg	tgaaccatca	gctgaaaaga	taaattttgtg	960
ttcaatatat	aggagaaaaa	atttgtgtca	aaatgttgaa	tgggaataata	atgagaaact	1020
gtgttaggca	tgtattaaaa	catttaataa	aaataaaaaa	acatttc		1067

&lt;210&gt; 676

&lt;211&gt; 784

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 676

aaaagaattc	tacaagattg	tggaaattcac	aatctagtat	tgatcaaaaa	ttggcaaatc	60
aaattaatga	tcttagacaa	actgtcattt	ggatgggaga	cagactcatg	agcttagaac	120
atcgtttcca	gttacaatgt	gactggaata	cgtcagattt	ttgtattaca	ccccaaattt	180
ataatgagtc	tgagcatcac	tgggacatgg	ttagacgcca	tctacaggga	agagaagata	240
atctcacttt	agacatttcc	aaattaaaag	aacaaatttt	cgaagcatca	aaagcccat	300
taaatttggg	gccaggaact	gaggcaattg	caggagttgc	tgatggcctc	gcaaattcta	360
accctgtcac	ttgggttaag	accattggaa	gtactacgat	tataaatctc	atattaatcc	420
ttgtgtgcct	gttttgtctg	ttgttagtct	gcaggtgtac	ccaacagctc	cgaagagaca	480
gcgaccatcg	agaacgggcc	atgatgacga	tggcggtttt	gtcgaaaaga	aaagggggaa	540
atgtggggaa	aagcaagaga	gatcaaatgt	ttactgtgtc	tgtgtagaaa	gaagtagaca	600
tgggagactc	cattttgtta	tgtgttaaga	aaaattcttc	tgctttgaga	ttctgttaat	660
ctatgacctt	acccccaacc	cgtgtctctc	tgaaacgtgt	gctgtgtcaa	ctcagggttg	720
aatggattaa	gggcgggtgca	ggatgtgctt	tgttaaacag	atgcttgaag	gcagcatgct	780
cctt						784

&lt;210&gt; 677

&lt;211&gt; 1362

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 677

ggcaccgagct	gggcattaat	gaggatcatt	ctgaggggtga	tgaaaaatct	gagaaggaaa	60
ctattatggc	tcaccagccg	actgatgtgg	agtccacttt	attgcaagtt	gcaaggaaaca	120
agaatactgc	catccgtgaa	gaactcaacc	agctgaaaaa	tgaaaacaga	atgttaaagg	180
acaggttgaa	tgcattgggc	ttttccctag	agcagaggtt	agacaattct	gaaaaactgt	240
ttggctatca	gtccctgagc	ccagaaatca	cccctggtaa	ccagagcgat	ggaggaggaa	300
ctctgacttc	ttcagtggaa	ggctctgccc	ctggctcagt	ggaggatctc	ttgagtcagg	360
atgaaaatac	actaatggac	catcagcaca	gtaactccat	ggacaattta	gacagttagt	420
gcagttaggt	ctaccagccc	ctcacatcga	gcgatgatgc	gctggatgca	cacatctctc	480
tctcagagtc	ggaaggcatc	tctcagcata	gagcgctccc	ggaaggggag	cagcgggaat	540
gccagtgaag	tgtccgtggc	tctgcctgac	ttnacgcata	caccagatgg	nagagaacca	600
acacagtaca	agtgagggac	tccaggcaac	cctgcaagag	ctagctgatt	tacagcagat	660
taccagggaa	ctgaatagt	aaaacgaaag	gcttgaggaa	gagaaggtta	ttctgatgga	720
gtctttatgt	cagcagagcg	ataagttgga	acactttagt	cgacagattg	aatacttccg	780
ctctcttcta	gatgagcatc	acattttctta	tgtcatagat	gaagatgtaa	aaagtggcg	840
ctatatggma	ttagagcaac	gttacatgga	cctcgctgag	aatgcccgtt	ttgaacggga	900
gcagcttctt	ggtgtccagc	agcattttaag	caatactttg	aaaatggcag	aacaagacaa	960
taaggaagct	caagaaatga	taggggcact	caaagaacgc	agtcaccata	tggagcgaat	1020
tattgagtct	gagcagaaa	gaaaagcagc	cttggcagcc	acgttagagg	aatacaaaagc	1080
cacagtggcc	agtgaccaga	tagagatgaa	tgcctgaag	gctcagctgg	agaatgacaa	1140
gcagaaagt	gcagagctgt	attctatcca	taactctgga	gacacatctg	atattcagga	1200
cctcctggag	agtgctcaggc	tggacaaaaga	aaaagcagag	actttggcta	gtagcttgca	1260
ggaagatctg	gtcataaccc	gacatgatgc	caatcgatta	caggatgccca	ttgctaggta	1320
gaggatgata	ccgagcctcc	aagaagagct	agaacaaatt	ga		1362

&lt;210&gt; 678

&lt;211&gt; 1771

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 678

agccagcggc	agcaggctga	gctcccaggc	tgacatctgg	gcagggctga	tgggcagctt	60
ctggccatct	ggtgaccagg	tgtgccgcaa	gtwktwwkta	tatgcacagc	ccctttccta	120
ataaccacaca	ttctagggtta	cgtagacacg	ttaaactcct	attctagaac	atcgtgcttg	180
aatgcagacc	cctcagccca	caatcgggct	ggctgggcct	cctgtgagcc	ctcattgcat	240
ccagtctgtg	gggcagtgac	cccgtttcca	ctggtggctg	gtcttctcca	tgggtgctatg	300
caggtgccaa	acacagttat	attctcaaag	gtacaggtct	tgtctggaca	ttgttcaaac	360
caatagctac	tgcgttaggc	acacgggaga	tccctattcc	caaaaatagc	tgttgagttc	420
tggcctgaga	gcattctccag	tgaccacett	taaataaggc	tttggttcaa	acagcatgga	480
cccagcacct	ggggagggtg	ggcacagggg	gcattggacc	agtacctggg	gagggcgggc	540
atggtggtag	gagacaactc	aaccactgag	tcttgagggt	cctgccttgg	ccacggaggg	600
cagtggctgc	cctcacaaga	agagtgaaga	cactttcttt	aactctgtcc	taggagaatt	660
atgtgttagt	gactcagtga	gtttaaatga	cactgcctgg	rtccctaaa	gttgtttact	720
tttstcctat	ttretgcktt	awtcttctgt	ctcaccatgc	taatgtacag	atgttgttta	780
gattttctatg	cttattgaaa	caatgtaact	gtgggactaa	cagaacagga	gcgaccttgt	840
ccagcattgc	tcgtaacaaa	acaaaaatgt	taactagaaa	aactccttat	gatgaagaaa	900
tctaaagcca	gagctgggac	tccaaacccc	ttccaggggtg	gaagacaggt	cgctgagtc	960
aggcaagggg	cccccgtaac	tgttccccgc	cagaaagccc	agccgcgtga	gtkcagcagc	1020
agcacccccag	ccctggcgctg	gccgcaccac	ggcctctaga	tactcttcta	gctcaggtctg	1080
aacacgcctg	gattgtgtcg	gccgggacag	ccccgtcagt	gtggggcagc	tgaccacgt	1140
ctgtgtgaac	atgtcctcc	aaactaggac	ggtgaagggc	ccagggcgct	gggaactgcc	1200
aggcgctgac	tctccttctg	ggttctcacc	agcacgggaa	cccaccagag	ccaatagtca	1260
ggaagtgcg	cggccgagcc	ttcatcaacc	ctagttagtt	tcccacagaa	ctgaatccct	1320
tttcccaaat	tcagctgtgc	atgagccctt	tttgtttggg	gccctggagc	actagtgtag	1380
ttcaatatte	tcttcagaag	gaaaactcca	gcagccaccg	gcctgcagga	tgtgtgctga	1440

gcccacatga	cctgaatgga	cggtcatgt	gggaggggccc	ctggtgggag	ctgtgggcca	1500
cacggctgag	ttcttccaat	acggaagccc	cgagctggag	gctcacacgc	tgtggggcag	1560
ccagagttg	ctggaagctt	tacaggggtg	cgtagctaata	ggcgctcggtg	tcgctcggtc	1620
gctgtggagg	ggtaacccgc	tattggggcg	gctcctcccg	gcatgctcag	gtctcaaagt	1680
acttgtagat	cgcgtcacat	acagtatcac	gttctgccag	tcgggtcggt	cagtccgtac	1740
catttcatta	atgtccagt	tggatttgat	g			1771

&lt;210&gt; 679

&lt;211&gt; 1367

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 679

ctagtggatc	caaagaattc	ggcacgagga	aacaagagcc	ctgaaagatg	aaatagatgt	60
tcttagggct	acctctgata	aagcaaataa	actggagtca	acagttgaga	tatatcgta	120
gaagctacaa	gatctgaatg	accttcgcaa	gcaggtgaaa	actttacagg	aaaccaacat	180
gatgtatatg	cataatacag	tcagcttaga	agaagaatta	aaaaaagcaa	atgcagcacg	240
tacacaatta	gaaacataca	aaaggcaggt	tcaagatctt	catgttaaac	tttctccga	300
atccaagagg	gcagacacac	tagcgtttga	aatgaagcgg	cttgaagaaa	aacatgaagc	360
tttacttaag	gaaaaagaga	gactaattga	gcagcgtgat	actttgaaag	aaacaaatga	420
agagcttcga	tggttcacaag	tacaacagga	ccacctaaac	caaacagatg	catctgctac	480
aaaaagttat	gagaatcttg	ctgctgagat	tatgccagtg	gaatataggg	aggtgtttat	540
tcgactgcaa	catgaaaata	agatgcttcg	cttacagcaa	gaaggctctg	agaatgaacg	600
tattgaggaa	cttcaggagc	agctagaaca	gaaacaccgt	aaaatgaatg	aactggaaac	660
tgagcagagg	ctgagcaaag	agcgtattag	agaattgcag	cagcagattg	aggacctcca	720
gaaatcttta	caggaacaag	gttccaagtc	tgaaggcgaa	agttccagca	aattaaagca	780
gaagttggaa	gctcatatgg	aaaaactcac	agaggtccat	gaagaattac	agaagaaca	840
agaactcatt	gaagatcttc	agccagatat	aaatcaaaat	gtacaaaaga	tcaatgaact	900
tgaagctgct	cttcagaaga	aagatgaaga	tatgaaagca	atggaggaaa	gatataaaat	960
gtacttggag	aaagccagaa	atgtaataaa	aactttggat	cccaagttaa	atccagcatc	1020
agctgaaata	atgctactaa	gaaagcagtt	ggcagagaaa	gagagaagaa	ttgagattct	1080
ggagagtga	tgcaaaagtag	caaaattccg	tgattatgaa	gaaaactcat	tggttctgcg	1140
tggtataata	agagtctagc	attccagaaa	ctggggatgg	aatctagact	tgtgagcggc	1200
gggtgtgcct	gcagtgacac	tggtgcgtgc	actcctgcgc	ggtctttctt	agcgcagcaa	1260
cggcacatca	ccaacaccag	aagaaatctc	tctgttaaag	tccttctctac	aacatctgat	1320
taaactgcaa	aaaaaacaaa	acaaaacaaa	aaaaaaaaaa	aaaaaac		1367

&lt;210&gt; 680

&lt;211&gt; 2545

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 680

ggatccaaag	attcggcacg	aggcggagtc	gcagcctcgg	tcccggagcc	caccttcgcc	60
tcgcccttgc	ccagcctgcg	gtgatggagg	cggccaccac	actgcaccca	ggcccgcgcc	120
cggcgctgcc	cctcgggggc	ccgggcccgc	tgggcgagtt	cctgcctcca	cccagtgccc	180
cggctcttca	accagctggg	gaagagtctg	cggaccctt	cgctttcatc	cacaagatcc	240
ggcccatagc	cgagcagact	ggcatctgta	aggtgcggcc	gccgcgggat	tggcagccac	300
catttgcatg	tgatgttgat	aaacttcatt	ttacgccacg	tatccagaga	ctgaatgaat	360
tggaggccca	aactcgtgta	aaattgaatt	tcttggaaca	gattgcaaag	tactgggagt	420
tacagggaag	tactctgaaa	attccacatg	tgagaggaa	gatcttggac	ttatttcagc	480
ttataaagtt	agttgcagaa	gaagtggtat	ttgcagttgt	ttgcaaggat	agaaaatgga	540
ccaaaattgc	taccaagatg	gggtttgtct	ctggcaaaagc	agtgggctca	catatcagag	600
ggcattatga	acgaattctc	aacccttaca	acttattcct	gtccggagac	agcctaagggt	660
gtttgcagaa	gccaaacctg	accacagaca	ctaaggacaa	ggagtacaaa	ccccatgata	720

ttccccagag	gcagtcctgtg	cagccttcgg	aaacgtgccc	cccagcccga	cgagcaaaac	780
gcatgagagc	agaggccatg	aattattaaaa	tagaaccgga	ggagacaaca	gaagccagaa	840
ctcataatct	gagacgtcga	atgggtgtgc	caactccaaa	atgtgaaaat	gagaaagaaa	900
tgaagagtag	catcaagcaa	gaacctattg	agaggaaaga	ttatattgta	gaaaatgaga	960
aggaaaagcc	caagagtcga	tctaaaaaag	ccaccaatgc	tgtggacctg	tatgtctgtc	1020
ttttatgtgg	cagtggcaat	gatgaagacc	ggctactgtt	gtgtgatggc	tgtgatgaca	1080
gttaccatac	cttttgcttg	atcccaccto	tccatgatgt	tcccagggga	gactggagggt	1140
gtcctaagtg	tttggctcag	gaatgtagta	agccacaaga	agcatttggc	tttgaacaag	1200
cagccaggga	ctataccctc	cgtacttttg	gggaaatggc	agatgcgttc	aaatctgatt	1260
acttcaacat	gccagtcctat	atgggtccca	cagagcttgt	tgagaaagaa	ttttggagac	1320
tagtaagcac	tattgaggag	gatgtcacag	tggaatatgg	agctgacatt	gcctcaaagg	1380
aatttggcag	tggctttcct	gtccgagatg	ggaaaaatcaa	actctcacct	gaggaagagg	1440
agtatcttga	tagtggctgg	aatttgaaca	acatgccagt	gatggagcag	tctgtccttg	1500
cacatattac	tgtgatata	tgtggcatga	aacttccttg	gttgatgtg	ggaatgtgct	1560
tttcttcatt	ctgttggcac	attgaagacc	actggagcta	ttcaattaac	tacttgcaact	1620
ggggtgagcc	aaaaacctgg	tatggagtcc	cagggtatgc	tgtctgagcag	ctagaaaatg	1680
taatgaagaa	actagctcca	gaactctttg	tgtcccagcc	ggatctcctc	catcagcttg	1740
tgaccatcat	gaaccccaat	accctgatga	ctcatgaagt	gcctgtttac	cgaactaatc	1800
agtgtgctgg	ggagtttgtg	attacatttc	caagagccta	ccacagtgtt	ttaaccaggg	1860
ttttaatttt	gctgaggctg	ttaacttctg	cactgttgat	tggtgcat	taggccgaca	1920
gtgtgtggag	cattatcgct	tgcttcacag	atattgtgtg	ttttcccatg	atgagatgat	1980
ctgcaagatg	gcttccaagg	ctgatgtatt	agatgttgta	gtggcttcaa	ctgttcagaa	2040
agacatggcc	attatgattg	aggatgagaa	agctttaaga	gaaactgtcc	gtaaattggg	2100
agtgattgat	tggaaagaa	tggattttga	gctgttgcca	gatgatgaac	gtcagtgtgt	2160
aaaatgcaaa	actacatgct	tcatgtctgc	catctcctgt	tcttgtaaac	ctggccttct	2220
tgtttgcctg	catcatgtaa	aagaattgtg	ttcctgtcct	ccttataaat	ataaattgcy	2280
gtataggtac	acgctggatg	atctctaccc	tatgatgaat	gcattgaagc	ttcgagcaga	2340
atcttacaac	gaatgggcct	tgaatgtgaa	tgaagctttg	gaggcaaaaga	tcaacaagaa	2400
gaaaagtatg	tgatacagaa	agtgacttgg	tgattggcaa	attggggcct	attgtgatgt	2460
agccaaatta	aagtcaacaa	aacattaaaa	aaaaaaaaaa	aaaactcgag	agtacttcta	2520
gagcgccgcg	ggcccatcga	ttttc				2545

&lt;210&gt; 681

&lt;211&gt; 1745

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 681

ctagtggatc	caaagaattc	ggcacgaggg	aagatggcct	cgtttcggaa	gctaacgctt	60
tctgaaaaag	tgcgcgcaaa	tcatcccagt	cggaataagg	ttaacttcct	agatatgtct	120
ctagacgaca	ttataatcta	taaagagtta	gaaggggaca	atgctgaaga	agaaaagaat	180
aaaagacaga	accatagtaa	aaaggaaatg	ccttcaagac	agcaatcaaa	agctcataga	240
catcgccatc	ggagaggcta	ctcaagatgc	agaagcaact	ctgagggaagg	aaatcatgat	300
aaaaaaccat	cccaaaaacc	ttctggattc	aagtctggac	aacacccttt	aaatgggcag	360
cctttaattg	agcaggagaa	gtgcagtgc	aattatgagg	ccaagcaga	gaagaatcaa	420
ggccagtcag	aggggaacca	gcatcaatca	gaaggaaatc	cggacaaatc	agaagaatcc	480
cagggccaac	cagaagaaaa	tcatcattct	gagcgatccc	gaaaccactt	agagagatct	540
ctttctcagt	cagacagatc	tcaagggcag	ctaaagagac	atcatcccca	atatgagaga	600
tctcatggcc	aatacaagag	atctcatggt	caatctgaga	gatctcatgg	ccactcagag	660
agatctcatg	gtcactcaga	agatctcat	ggcactcag	agagatctca	tggtcactca	720
aagagatctc	gtagccaggg	agatcttggt	gtacactcaga	gtgatctcat	agccactcag	780
agagatctca	tagccactca	gaaagatctc	atagccactc	agagagatct	catagccact	840
cagagagatc	tcatagtac	tcaagagat	ctcgtggcca	ctgagagaga	tctcataaat	900
cagtcaggga	gatctcatgg	ccaatcagaa	agacatcaga	gatactcaac	aggtaaaaaat	960
acaataacta	cttaatcatc	agaacaatgt	gttgaattct	gtggaaatag	aaaagcatat	1020

atctatat	taatggctaa	atatgtattt	gttgaacat	gtatattggg	acaaagacat	1080
aaatattaga	atggaggtaa	tacatacata	gtatcaatat	tgtttcaact	tgatgtcctc	1140
taagctatca	tccagttacc	caagatgtcc	cattaagttg	ttcccggtag	gtctgctttc	1200
cctggaagag	ccgtatgtac	tcagcctttc	ctattggggc	ttccccacaa	ttagaatatt	1260
ttgacttagt	gtcctgtccc	ccttggacgt	tccaacttga	cttagtgtcc	agtgtcccctt	1320
ggacattcca	acctggtagg	taagctaata	taacaactaa	ctgccaaatt	gataatatat	1380
aatctatgat	aatgaatata	tcttttgtgt	ctccttccta	agccatcctc	agagagtcc	1440
tagcagacaa	atggtagatg	tatctttggg	cagctgaact	tttctgcttt	cctcaaatca	1500
gaccatatga	gaggatatata	tctatgcata	gatgtaatgc	taaccttctg	aatatatattt	1560
gaatacattt	atatattcac	tgttgcctta	taaaactggt	agggtaggtc	tgtctaccct	1620
agcaaaagaa	acacagaaat	ttaaatgtac	tgggagttat	kxkxxtaaaa	acacaagata	1680
tgtaactgc	agtttgtttg	gttattcaat	aaaagtttta	gttttaaaaa	aaaaaaaaaa	1740
aaaac						1745

&lt;210&gt; 682

&lt;211&gt; 1745

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 682

ctagtggatc	caaagaattc	ggcacgaggg	aagatggcct	cgtttcggaa	gctaacgctt	60
tctgaaaaag	tgccgccaaa	tcatccaggt	cggaaaaagg	ttaacttcct	agatatgtct	120
ctagacgaca	ttataatcta	taaagagtta	gaagggacaa	atgctgaaga	agaaaagaat	180
aaaagacaga	accatagtaa	aaaggaatcg	ccttcaagac	agcaatcaaa	agctcataga	240
catcgccatc	ggagaggcta	ctcaagatgc	agaagcaact	ctgaggaagg	aatcatgat	300
aaaaaaccat	cccaaaaacc	ttctggattc	aagtctggac	aacacccttt	aatgggcag	360
cctttaattg	agcaggagaa	gtgcagtgc	aattatgagg	cccaagcaga	gaagaatcaa	420
ggccagtcag	aggggaacca	gcataaatca	gaaggaaatc	cggacaaatc	agaagaatcc	480
cagggccaac	cagaagaaaa	tcatcattct	gagcgatccc	gaaaccactt	agagagatct	540
ctttctcagt	cagacagatc	tcaagggcag	ctaaagagac	atcatcccca	atatgagaga	600
tctcatggcc	aatacaagag	atctcatggg	caatctgaga	gatctcatgg	ccactcagag	660
agatctcatg	gtcactcaga	gagatctcat	ggctactcag	agagatctca	tggtcactca	720
aagagatctc	gtagccaggg	agatcttggt	gacactcaga	gtgatctcat	agccactcag	780
agagatctca	tagccactca	gaaagatctc	atagccactc	agagagatct	catagccact	840
cagagagatc	tcatagtac	tcagagagat	ctcgtggcca	ctgagagaga	tctcataaat	900
cagtcaggga	gatctcatgg	ccaatcagaa	agacatcaga	gataactcaac	aggtaaaaaat	960
acaataacta	cttaatcatc	agaacaatgt	gttgaattct	gtggaaatag	aaaagcatat	1020
atctatat	taatggctaa	atatgtattt	gttgaacat	gtatattggg	acaaagacat	1080
aaatattaga	atggaggtaa	tacatacata	gtatcaatat	tgtttcaact	tgatgtcctc	1140
taagctatca	tccagttacc	caagatgtcc	cattaagttg	ttcccggtag	gtctgctttc	1200
cctggaagag	ccgtatgtac	tcagcctttc	ctattggggc	ttccccacaa	ttagaatatt	1260
ttgacttagt	gtcctgtccc	ccttggacgt	tccaacttga	cttagtgtcc	agtgtcccctt	1320
ggacattcca	acctggtagg	taagctaata	taacaactaa	ctgccaaatt	gataatatat	1380
aatctatgat	aatgaatata	tcttttgtgt	ctccttccta	agccatcctc	agagagtcc	1440
tagcagacaa	atggtagatg	tatctttggg	cagctgaact	tttctgcttt	cctcaaatca	1500
gaccatatga	gaggatatata	tctatgcata	gatgtaatgc	taaccttctg	aatatatattt	1560
gaatacattt	atatattcac	tgttgcctta	taaaactggt	agggtaggtc	tgtctaccct	1620
agcaaaagaa	acacagaaat	ttaaatgtac	tgggagttat	kxkxxtaaaa	acacaagata	1680
tgtaactgc	agtttgtttg	gttattcaat	aaaagtttta	gttttaaaaa	aaaaaaaaaa	1740
aaaac						1745

&lt;210&gt; 683

&lt;211&gt; 3127

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 683

gaattcggca	cgagggtcag	caattgctta	ggcggaatg	cgatttcggg	ggaggaggcg	60
cgggtatgta	gacagagggg	gttgggacac	accaggaggg	gaggagccag	cccagagat	120
cgggaatcct	ctcagtcctt	agttacaagg	ctccatcctc	actttgttcg	ctcctcagtc	180
gtccaggcgg	attccttttt	cgccaggcac	caaggcacag	cttagagtag	acccgagtcc	240
tgctctgcgg	agttcctctt	cccagcgaag	gtacagaggg	ggatgaactg	ctgagacttg	300
attgacgtat	tttaagattt	ttttaacttc	tgaagtctag	caggcctgta	agaacaaaaa	360
tcattctgta	ggaattaaaa	acagaatcca	gtcttgacaa	catatccaca	atgtctgatg	420
tatctactag	tgtacaatca	aaatttgata	gacttgcaaa	gaaaaaggaa	aatatcacct	480
atatgagcag	agagcagtta	acagaaactg	ataaggacat	agctccggta	ttagcattta	540
aaagtcaagg	acgtatcagc	aattatgaat	aagtttaagg	tcttaatgga	aattcaagac	600
ctgatgtttg	aggagatgag	ggaaactcct	aaaaatgacc	taaaagcagt	tttaggagga	660
aaagctacaa	tacctgaggt	aaagaattca	gagaactcca	gtagtaggca	ggtttcagca	720
aataatcaat	ttagcattac	aaaaaacagg	gatggtaggg	aaaatagaag	gagaaactct	780
aaaatagggtg	atgataatga	aaatttaacc	tttaaattag	aagtaaatga	gctgagtggg	840
aaattagaca	acactaacga	atacaatagt	aatgatggta	agaaattacc	ccagggtgaa	900
tcacgaagtt	acgaagtcat	gggaagtatg	gaagaaacct	tatgcaatat	agatgacaga	960
gatggaaatc	gcaatgtcca	tttagaatth	acagaaagag	agagttaggaa	ggatggagag	1020
gatgaatttg	tcaaaagaaat	gagagaggaa	agaaaatttc	agaaattgaa	gaataaagag	1080
gaggttttaa	aagcctccag	agaagaaaaa	gtgttgatgg	atgaaggagc	agtacttacc	1140
ctggcagccg	acctttcatc	agcaacactg	gatattagta	agcaatggag	taatgtcttc	1200
aacattctga	gagaaaatga	ttttgaacct	aaattttctgt	gtgaagttaa	attagcattt	1260
aaatgtgatg	gtgaaataaa	gacattttca	gatctgcaaa	gccttagaaa	atttgccagc	1320
caaaaatcct	ctatganaga	wttactgana	gatgtactcc	cacaaaagga	agaaataaat	1380
caaggaggaa	gaaaaatatg	nattcaagaa	aaaagggata	aaacccta	agactcanag	1440
catagagctg	gagaaataac	cagtgatggc	ttgagcttcc	tatttcttaa	agaagtaaaa	1500
gttgctaagc	cagaggagat	gaaaaactta	gagactcaag	aggaagagtt	ttccgagcta	1560
gaggagctgg	atgaagaggc	ttcagggatg	gaggatgatg	aagatacctc	agggctggag	1620
gaggaagaag	aagaagaggc	ttcaggggtg	gaggaggatg	antcctcang	gctagaggag	1680
gaagagggaac	agacttcaga	acaggactca	acctttcang	gtcatacttt	ggtagatgca	1740
aagcatgaag	ttgagataac	cagtnatggc	atggaaacta	ctttcattga	ctctgtagag	1800
gattctgaat	cagaggaggga	agaggaagga	aagagctctg	aaacaggaaa	ggtaaagact	1860
acctccctga	ctgagaaaaa	agcctcacgt	agacaaaaag	aaattccctt	tagttatttg	1920
gttggggact	ctgggaagaa	aaagtgtgtg	aaacaccagg	tggtgcacaa	aaccaggag	1980
gaagaggaaa	cagctgtgcc	cacaagtcaa	ggaactggca	caacctgtct	gaccttatgt	2040
ttggcctctc	cctcaaagtc	actagagatg	agtcattgatg	agcataaaaa	gcattcacat	2100
acaaatttga	gtatttcaac	aggagtcacc	aaacttaaga	aaacagaaga	aaagaaacac	2160
aggactctgc	acacagaaga	actaacatcc	aaagaagcag	acttaacaga	ggaaacagaa	2220
gaaaacttga	gaagttagtg	gattaatagc	atcagagaga	taaaagagga	gattggaaat	2280
ttgaaaagtt	ccatttcagg	tgtcttgga	attgaaaatt	cagtagatga	tctgagttagc	2340
agaatggaca	tccttgaaga	aagaatagac	agtcataaga	atcaaatgga	agaattctct	2400
aaggatacaa	tgcaaatgac	caaacagata	attagtaaa	aaggggcna	agatatagag	2460
gagagatcta	gaagtgtgaa	cattcggttg	ataggaattc	cagaaaagga	gagttatgag	2520
aatagggcag	aggacataat	taaggaaata	attgatgaaa	actttgcaga	actaaagaaa	2580
ggttcaagtc	ttgagattgt	cagtgtctgt	cgagtaccta	gtaaaattga	tgaaaagaga	2640
ctgactccta	gacacatctt	ggtgaaatth	tggaaattcta	gtgataaaga	gaaaataata	2700
aggccttcta	gagagagaag	agaaattacc	taccaaggaa	caagaatcag	gttgacagca	2760
gacttatcac	tggacacact	ggatgctaga	agtaaatgga	gcaatgtctt	caaagttctg	2820
ctggaaaaag	gctttaaccc	tagaacctta	taccagacca	aaatggcatt	tgatttttagg	2880
ggtaaaaaca	aggtattcct	tagtaattga	gaatttagag	attatgtttt	gcatatgcc	2940
accttgagag	aattactggg	gaataatata	ccttagcacc	ccagggtgac	tacaacaat	3000
atgctttcct	ccccagcat	gcacccaaaa	accaacaagt	aaaacgaaag	tacacttcta	3060
cccagaagga	tggacagcta	ataccgtact	tggggatgag	gagcaaggaa	tattacagat	3120
attaccc						3127

<210> 684  
 <211> 803  
 <212> PRT  
 <213> Homo Sapiens

<400> 684  
 Met Asn Lys Phe Lys Val Leu Met Glu Ile Gln Asp Leu Met Phe Glu  
 1 5 10 15  
 Glu Met Arg Glu Thr Leu Lys Asn Asp Leu Lys Ala Val Leu Gly Gly  
 20 25 30  
 Lys Ala Thr Ile Pro Glu Val Lys Asn Ser Glu Asn Ser Ser Arg  
 35 40 45  
 Gln Val Ser Ala Asn Asn Gln Phe Ser Ile Thr Lys Asn Arg Asp Gly  
 50 55 60  
 Arg Glu Asn Arg Arg Arg Asn Ser Lys Ile Gly Asp Asp Asn Glu Asn  
 65 70 75 80  
 Leu Thr Phe Lys Leu Glu Val Asn Glu Leu Ser Gly Lys Leu Asp Asn  
 85 90 95  
 Thr Asn Glu Tyr Asn Ser Asn Asp Gly Lys Lys Leu Pro Gln Gly Glu  
 100 105 110  
 Ser Arg Ser Tyr Glu Val Met Gly Ser Met Glu Glu Thr Leu Cys Asn  
 115 120 125  
 Ile Asp Asp Arg Asp Gly Asn Arg Asn Val His Leu Glu Phe Thr Glu  
 130 135 140  
 Arg Glu Ser Arg Lys Asp Gly Glu Asp Glu Phe Val Lys Glu Met Arg  
 145 150 155 160  
 Glu Glu Arg Lys Phe Gln Lys Leu Lys Asn Lys Glu Glu Val Leu Lys  
 165 170 175  
 Ala Ser Arg Glu Glu Lys Val Leu Met Asp Glu Gly Ala Val Leu Thr  
 180 185 190  
 Leu Ala Ala Asp Leu Ser Ser Ala Thr Leu Asp Ile Ser Lys Gln Trp  
 195 200 205  
 Ser Asn Val Phe Asn Ile Leu Arg Glu Asn Asp Phe Glu Pro Lys Phe  
 210 215 220  
 Leu Cys Glu Val Lys Leu Ala Phe Lys Cys Asp Gly Glu Ile Lys Thr  
 225 230 235 240  
 Phe Ser Asp Leu Gln Ser Leu Arg Lys Phe Ala Ser Gln Lys Ser Ser  
 245 250 255  
 Met Xaa Xaa Leu Leu Xaa Asp Val Leu Pro Gln Lys Glu Glu Ile Asn  
 260 265 270  
 Gln Gly Gly Arg Lys Tyr Gly Ile Gln Glu Lys Arg Asp Lys Thr Leu  
 275 280 285  
 Ile Asp Ser Xaa His Arg Ala Gly Glu Ile Thr Ser Asp Gly Leu Ser  
 290 295 300  
 Phe Leu Phe Leu Lys Glu Val Lys Val Ala Lys Pro Glu Glu Met Lys  
 305 310 315 320  
 Asn Leu Glu Thr Gln Glu Glu Glu Phe Ser Glu Leu Glu Glu Leu Asp  
 325 330 335  
 Glu Glu Ala Ser Gly Met Glu Asp Asp Glu Asp Thr Ser Gly Leu Glu  
 340 345 350  
 Glu Glu Glu Glu Glu Glu Ala Ser Gly Leu Glu Glu Asp Xaa Ser Ser  
 355 360 365  
 Xaa Leu Glu Glu Glu Glu Glu Gln Thr Ser Glu Gln Asp Ser Thr Phe  
 370 375 380  
 Xaa Gly His Thr Leu Val Asp Ala Lys His Glu Val Glu Ile Thr Ser

```

385          390          395          400
Xaa Gly Met Glu Thr Thr Phe Ile Asp Ser Val Glu Asp Ser Glu Ser
          405          410          415
Glu Glu Glu Glu Glu Gly Lys Ser Ser Glu Thr Gly Lys Val Lys Thr
          420          425          430
Thr Ser Leu Thr Glu Lys Lys Ala Ser Arg Arg Gln Lys Glu Ile Pro
          435          440          445
Phe Ser Tyr Leu Val Gly Asp Ser Gly Lys Lys Lys Leu Val Lys His
          450          455          460
Gln Val Val His Lys Thr Gln Glu Glu Glu Thr Ala Val Pro Thr
465          470          475          480
Ser Gln Gly Thr Gly Thr Thr Cys Leu Thr Leu Cys Leu Ala Ser Pro
          485          490          495
Ser Lys Ser Leu Glu Met Ser His Asp Glu His Lys Lys His Ser His
          500          505          510
Thr Asn Leu Ser Ile Ser Thr Gly Val Thr Lys Leu Lys Lys Thr Glu
          515          520          525
Glu Lys Lys His Arg Thr Leu His Thr Glu Glu Leu Thr Ser Lys Glu
          530          535          540
Ala Asp Leu Thr Glu Glu Thr Glu Glu Asn Leu Arg Ser Ser Val Ile
545          550          555          560
Asn Ser Ile Arg Glu Ile Lys Glu Glu Ile Gly Asn Leu Lys Ser Ser
          565          570          575
His Ser Gly Val Leu Glu Ile Glu Asn Ser Val Asp Asp Leu Ser Ser
          580          585          590
Arg Met Asp Ile Leu Glu Glu Arg Ile Asp Ser Leu Glu Asp Gln Ile
          595          600          605
Glu Glu Phe Ser Lys Asp Thr Met Gln Met Thr Lys Gln Ile Ile Ser
          610          615          620
Lys Glu Gly Pro Arg Asp Ile Glu Glu Arg Ser Arg Ser Cys Asn Ile
625          630          635          640
Arg Leu Ile Gly Ile Pro Glu Lys Glu Ser Tyr Glu Asn Arg Ala Glu
          645          650          655
Asp Ile Ile Lys Glu Ile Ile Asp Glu Asn Phe Ala Glu Leu Lys Lys
          660          665          670
Gly Ser Ser Leu Glu Ile Val Ser Ala Cys Arg Val Pro Ser Lys Ile
          675          680          685
Asp Glu Lys Arg Leu Thr Pro Arg His Ile Leu Val Lys Phe Trp Asn
          690          695          700
Ser Ser Asp Lys Glu Lys Ile Ile Arg Pro Ser Arg Glu Arg Arg Glu
705          710          715          720
Ile Thr Tyr Gln Gly Thr Arg Ile Arg Leu Thr Ala Asp Leu Ser Leu
          725          730          735
Asp Thr Leu Asp Ala Arg Ser Lys Trp Ser Asn Val Phe Lys Val Leu
          740          745          750
Leu Glu Lys Gly Phe Asn Pro Arg Thr Leu Tyr Pro Ala Lys Met Ala
          755          760          765
Phe Asp Phe Arg Gly Lys Thr Lys Val Phe Leu Ser Ile Glu Glu Phe
          770          775          780
Arg Asp Tyr Val Leu His Met Pro Thr Leu Arg Glu Leu Leu Gly Asn
785          790          795          800
Asn Ile Pro

```

&lt;210&gt; 685



&lt;211&gt; 947

&lt;212&gt; PRT

&lt;213&gt; Homo Sapiens

&lt;400&gt; 685

```

Met Ser Leu Pro Ser Arg Gln Thr Ala Ile Ile Val Asn Pro Pro Pro
 1          5          10          15
Pro Glu Tyr Ile Asn Thr Lys Lys Asn Gly Arg Leu Thr Asn Gln Leu
      20          25          30
Gln Tyr Leu Gln Lys Val Val Leu Lys Asp Leu Trp Lys His Ser Phe
      35          40          45
Ser Trp Pro Phe Gln Arg Pro Val Asp Ala Val Lys Leu Lys Leu Pro
 50          55          60
Asp Tyr Tyr Thr Ile Ile Lys Asn Pro Met Asp Leu Asn Thr Ile Lys
65          70          75          80
Lys Arg Leu Glu Asn Lys Tyr Tyr Ala Lys Ala Ser Glu Cys Ile Glu
      85          90          95
Asp Phe Asn Thr Met Phe Ser Asn Cys Tyr Leu Tyr Asn Lys Pro Gly
      100          105          110
Asp Asp Ile Val Leu Met Ala Gln Ala Leu Glu Lys Leu Phe Met Gln
      115          120          125
Lys Leu Ser Gln Met Pro Gln Glu Glu Gln Val Val Gly Val Lys Glu
130          135          140
Arg Ile Lys Lys Gly Thr Gln Gln Asn Ile Ala Val Ser Ser Ala Lys
145          150          155          160
Glu Lys Ser Ser Pro Ser Ala Thr Glu Lys Val Phe Lys Gln Gln Glu
      165          170          175
Ile Pro Ser Val Phe Pro Lys Thr Ser Ile Ser Pro Leu Asn Val Val
      180          185          190
Gln Gly Ala Ser Val Asn Ser Ser Ser Gln Thr Ala Ala Gln Val Thr
      195          200          205
Lys Gly Val Lys Arg Lys Ala Asp Thr Thr Thr Pro Ala Thr Ser Ala
210          215          220
Val Lys Ala Ser Ser Glu Phe Ser Pro Thr Phe Thr Glu Lys Ser Val
225          230          235          240
Ala Leu Pro Pro Ile Lys Glu Asn Met Pro Lys Asn Val Leu Pro Asp
      245          250          255
Ser Gln Gln Gln Tyr Asn Val Val Glu Thr Val Lys Val Thr Glu Gln
      260          265          270
Leu Arg His Cys Ser Glu Ile Leu Lys Glu Met Leu Ala Lys Lys His
      275          280          285
Phe Ser Tyr Ala Trp Pro Phe Tyr Asn Pro Val Asp Val Asn Ala Leu
290          295          300
Gly Leu His Asn Tyr Tyr Asp Val Val Lys Asn Pro Met Asp Leu Gly
305          310          315          320
Thr Ile Lys Glu Lys Met Asp Asn Gln Glu Tyr Lys Asp Ala Tyr Ser
      325          330          335
Phe Ala Ala Asp Val Arg Leu Met Phe Met Asn Cys Tyr Lys Tyr Asn
      340          345          350
Pro Pro Asp His Glu Val Val Thr Met Ala Arg Met Leu Gln Asp Val
      355          360          365
Phe Glu Thr His Phe Ser Lys Ile Pro Ile Glu Pro Val Glu Ser Met
      370          375          380
Pro Leu Cys Tyr Ile Lys Thr Asp Ile Thr Glu Thr Thr Gly Arg Glu
385          390          395          400

```

Asn Thr Asn Glu Ala Ser Ser Glu Gly Asn Ser Ser Asp Asp Ser Glu  
 405 410 415  
 Asp Glu Arg Val Lys Arg Leu Ala Lys Leu Gln Glu Gln Leu Lys Ala  
 420 425 430  
 Val His Gln Gln Leu Gln Val Leu Ser Gln Val Pro Phe Arg Lys Leu  
 435 440 445  
 Asn Lys Lys Lys Glu Lys Ser Lys Lys Glu Lys Lys Lys Glu Lys Val  
 450 455 460  
 Asn Asn Ser Asn Glu Asn Pro Arg Lys Met Cys Glu Gln Met Arg Leu  
 465 470 475 480  
 Lys Glu Lys Ser Lys Arg Asn Gln Pro Lys Lys Arg Lys Gln Gln Phe  
 485 490 495  
 Ile Gly Leu Lys Ser Glu Asp Glu Asp Asn Ala Lys Pro Met Asn Tyr  
 500 505 510  
 Asp Glu Lys Arg Gln Leu Ser Leu Asn Ile Asn Lys Leu Pro Gly Asp  
 515 520 525  
 Lys Leu Gly Arg Val Val His Ile Ile Gln Ser Arg Glu Pro Ser Leu  
 530 535 540  
 Ser Asn Ser Asn Pro Asp Glu Ile Glu Ile Asp Phe Glu Thr Leu Lys  
 545 550 555 560  
 Ala Ser Thr Leu Arg Glu Leu Glu Lys Tyr Val Ser Ala Cys Leu Arg  
 565 570 575  
 Lys Arg Pro Leu Lys Pro Pro Ala Lys Lys Ile Met Met Ser Lys Glu  
 580 585 590  
 Glu Leu His Ser Gln Lys Lys Gln Glu Leu Glu Lys Arg Leu Leu Asp  
 595 600 605  
 Val Asn Asn Gln Leu Asn Ser Arg Lys Arg Gln Thr Lys Ser Asp Lys  
 610 615 620  
 Thr Gln Pro Ser Lys Ala Val Glu Asn Val Ser Arg Leu Ser Glu Ser  
 625 630 635 640  
 Ser Ser Ser Ser Ser Ser Ser Ser Glu Ser Glu Ser Ser Ser Ser Asp  
 645 650 655  
 Leu Ser Ser Ser Asp Ser Ser Asp Ser Glu Ser Glu Met Phe Pro Lys  
 660 665 670  
 Phe Thr Glu Val Lys Pro Asn Asp Ser Pro Ser Lys Glu His Val Lys  
 675 680 685  
 Lys Met Lys Asn Glu Cys Ile Leu Pro Glu Gly Arg Thr Gly Val Thr  
 690 695 700  
 Gln Ile Gly Tyr Cys Val Gln Asp Thr Thr Ser Ala Asn Thr Thr Leu  
 705 710 715 720  
 Val His Gln Thr Thr Pro Ser His Val Met Pro Pro Asn His His Gln  
 725 730 735  
 Leu Ala Phe Asn Tyr Gln Glu Leu Glu His Leu Gln Thr Val Lys Asn  
 740 745 750  
 Ile Ser Pro Leu Gln Ile Leu Pro Pro Ser Gly Asp Ser Glu Gln Leu  
 755 760 765  
 Ser Asn Gly Ile Thr Val Met His Pro Ser Gly Asp Ser Asp Thr Thr  
 770 775 780  
 Met Leu Glu Ser Glu Cys Gln Ala Pro Val Gln Lys Asp Ile Lys Ile  
 785 790 795 800  
 Lys Asn Ala Asp Ser Trp Lys Ser Leu Gly Lys Pro Val Lys Pro Ser  
 805 810 815  
 Gly Val Met Lys Ser Ser Asp Glu Leu Phe Asn Gln Phe Arg Lys Ala  
 820 825 830  
 Ala Ile Glu Lys Glu Val Lys Ala Arg Thr Gln Glu Leu Ile Arg Lys

835	840	845
His Leu Glu Gln Asn Thr Lys Glu Leu Lys Ala Ser Gln Glu Asn Gln		
850	855	860
Arg Asp Leu Gly Asn Gly Leu Thr Val Glu Ser Phe Ser Asn Lys Ile		
865	870	875
Gln Asn Lys Cys Ser Gly Glu Glu Gln Lys Glu His Pro Gln Ser Ser		
885	890	895
Glu Ala Gln Asp Lys Ser Lys Leu Trp Leu Leu Lys Asp Arg Asp Leu		
900	905	910
Ala Arg Pro Lys Glu Gln Glu Arg Arg Arg Glu Ala Met Val Gly		
915	920	925
Thr Ile Asp Met Thr Leu Gln Ser Asp Ile Met Thr Met Phe Glu Asn		
930	935	940
Asn Phe Asp		
945		

<210> 686  
 <211> 3106  
 <212> DNA  
 <213> Homo Sapiens

<400> 686

gtggcaagat gttcctggga ggtcaagtta agagtcaaaa ataattcatt agattttaaca	60
atttagcatg gacatgtact tgtagacagg attcaaagca gttaagaatg tctctgccaa	120
gtcgacaaac agctattatt gttaaccctc ctccaccaga atataataat actaagaaaa	180
atgggcgatt gacaaatcaa cttcagtatc tacaaaaagt tgtcctaaag gatttatgga	240
agcatagttt ttcattggccc ttccaacgtc ctgtggatgc tgtgaaacta aagttgcctg	300
attattatac cattataaaa aacccaatgg atttaaatac aattaagaag cgcttgagga	360
ataaatatta tgcgaaggct tcagaatgta tagaagactt caatacaatg ttctcaaatt	420
gtttttata taacaagcct ggagatgaca ttgttcttat ggcacaagct ctagagaagc	480
tgtttatgca gaaattatct cagatgccac aagaagagca agttgtgggt gttaaggaaa	540
gaatcaagaa aggcactcaa cagaatatag ctgtttcttc tgctaaagaa aaatcatcac	600
ccagcgcaac agaaaaagta tttaagcagc aagaaattcc ttctgtattt cctaagacat	660
ctattttctc cttgaacgtg gtacagggag cttcagtcaa ctccagtcca caaactgcgg	720
cccaagttac aaaaggtgtg aagaggaaaag cagatacaac aactcctgca acttcagcag	780
ttaaagcaag tagtgaattt tctccaacat tcacagaaaa atcagtggca ctgccacctt	840
taaaagaaaa tatgccaaag aatgttttgc cagattctca gcaacaatat aatgttgttg	900
agactgttaa agtaactgaa caattaaggc actgtagtga gattcttaaa gaaatgcttg	960
caagaaaca tttttcatat gcatggccct ttataatcc tgttgacgtt aatgcttttg	1020
gactccataa ctactatgac gttgtcaaaa atccgatgga tcttggaact attaaggaga	1080
aaatggataa ccaagaatat aaggatgcat actcattgc ggcagatgtt agattaatgt	1140
tcatgaattg ctacaagtac aatcctccag atcaggaagt tgtgacaatg gcaagaatgc	1200
ttcaggatgt ttctgaaacg catttttcaa agatcccgat tgaacctgtt gagagtatgc	1260
ctttatgtta catcaaaaca gatatcacag aaaccactgg tagagagaac actaatgaag	1320
cctcctctga agggaaactct tctgatgatt ctgaagatga gcgagttaag cgtcttgcaa	1380
agcttcagga gcagcttaaa gctgtacatc aacagctcca ggttttgtcc caagtacctt	1440
tccgtaagct aaataaaaaag aaagagaagt ctaaaaagga aaagaaaaaa gaaaaggtta	1500
ataacagcaa tgaaaatcca agaaaaatgt gtgagcaaat gaggctaaag gaaaagtcca	1560
agagaaatca gccaaagaaa aggaaacaac agttcattgg tctaaaatct gaagatgaag	1620
ataatgctaa acctatgaac tatgatgaga aaaggcagtt aagctcgaat ataaacaaac	1680
tcctctggaga taaacttggg cgagtgttc acataatata atcaagagag ccttctctga	1740
gcaattccaa tcctgatgag atagagatag actttgaaac actgaaagca tcaacactaa	1800
gagaattaga aaaatatgtt tcggcatgtc taagaaagag accattaaaa cctcctgcta	1860
agaaaataat gatgtccaaa gaagaacttc actcacagaa aaaacaggaa ttggaaaagc	1920
ggttactgga tgttaataat cagttaaatt ctagaaaacg tcaaacaaaa tctgataaaa	1980

cgcaaccatc	caaagctgtt	gaaaatgttt	cccgactgag	tgagagcagc	agcagcagca	2040
gcagctcatc	agagtctgaa	agtagcagca	gtgacttaag	ctcttcagac	agcagtgatt	2100
ctgaatcaga	aatgttccct	aagtttacag	aagtaaaacc	aatgattctt	ccttctaag	2160
agcatgtaaa	gaaaatgaag	aatgaatgca	tactgcctga	aggaagaaca	ggcgtcacac	2220
agataggata	ttgtgtgcaa	gacacaacct	ctgccaatac	tacccttggt	catcagacca	2280
caccttcaca	tgtaatgcca	ccaaatcacc	accaattagc	atttaattat	caagaattag	2340
aacattttaca	gactgtgaaa	aacatttcac	ctttacaaat	tctgcctccc	tcaggtgatt	2400
ctgaacagct	ctcaaatggc	ataactgtga	tgcatccatc	tgggtgatagt	gacacaacga	2460
tgtagaatac	tgaatgtcaa	gctcctgtac	agaaggatat	aaagattaag	aatgcagatt	2520
catggaaaaa	tttaggcaaa	ccagtgaaac	catcagggtg	aatgaaatcc	tcagatgagc	2580
tcttcaacca	atttagaaaa	gcagccatag	aggaaactaa	agcatctcaa	gaaaatcaga	2640
tcatacggaa	gcatttgga	caaaaatacaa	agcatctcaa	gaaaatcaga	gaaaatcaga	2700
gggatcttgg	gaatggattg	actgtagaat	ctttttcaaa	taaaatacaa	aacaagtgtc	2760
ctggagaaga	gcagaaagaa	catccgcagt	catcagaagc	tcaagataaa	tccaaactct	2820
ggcttctcaa	agaccgtgat	ttagccaggc	cgaagaaca	agagaggagg	aggagagaag	2880
ccatgggtgg	taccattgat	atgacccttc	aaagtgcac	tatgacaatg	tttgaataca	2940
actttgatta	aaactcagtt	tttaaatata	ccatccactt	aaaatgaatg	gtaaaagatc	3000
aaaatgcata	tggtaaaaatg	attgctttca	gataacaaga	taccaatctt	atattgtatt	3060
ttgactgtc	taaaatgatt	aaacagtttt	cacttacaaa	aaaaaa		3106

&lt;210&gt; 687

&lt;211&gt; 1759

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 687

gtcactccgc	aattagacag	ctaagagatc	tgtgttactt	ccctcacata	tataaataat	60
tttaataaaa	aatcatggcg	tgaataat	ctttcctcta	ccgatttgaa	gctatccatt	120
tggaagacca	ctctgaagag	atgaaataag	tcttctgcca	aagattactt	attaatttca	180
aaggaaaagg	ggaagt	ttcctctccg	tgaatttgat	tgaaaatcga	gggctttctc	240
gaatagtttt	ggcatccagg	gtcatttttc	attaaaaaga	gaaaagtcac	gtcaaatatg	300
aatttccgca	gattattcag	cactagaccc	tgggagattc	tgtaaagagg	gggtttgtta	360
tactcaactt	ttccgggtaa	aacaaacaca	aatactctc	ctccaagggg	cgggggcggg	420
gcctaggtga	tgcaccaatc	acagcgcgcc	ctaccctata	taagccccga	ggccgcccgg	480
gtgtttcatg	cttttcgctg	gttattacat	cttgcgtttc	tctgttggtt	tgtctgaaac	540
cgtgcctgca	gcttctgcca	gtgctgggtc	agccgctatg	gagaaacttc	caaccaagaa	600
gcgagggagg	aagccggctg	gcttgataag	tgcaagtcgc	aaagtgcga	acctctctgt	660
gtccaagt	atcaccgagg	ccctttcagt	gtcacaggaa	cgagtaggta	tgtctttggg	720
tgcgctcaag	aaggcattgg	ccgctgctgg	ctacgacgta	gagaagaata	acagccgcac	780
caaactgtcc	ctcaagagct	tagtgaacaa	gggaatcctg	gtgcaaacca	gggggtactg	840
tgtctccggt	tcctttaagc	ttagtaagaa	ggtgattcct	aaatctacac	gaagcaaggc	900
taaaaagtca	gtttctgcca	agaccaagaa	gctgggttta	tccagggaact	ccaagtcacc	960
aaagactgct	aaaaccaata	agagagccaa	gaagccgaga	gcgacaactc	ctaaaactgt	1020
taggagcggg	agaaaggcta	aaggagccaa	gggtaagcaa	cagcagaaga	gcccagtgaa	1080
ggcaagggtc	tcgaagtcaa	aattgaccca	acatcatgaa	gttaattgta	gaaaggccac	1140
atctaagaag	taaagagctt	tccgggaggc	caatttgga	agaacccaaa	ggctctttta	1200
agagccaccc	acattat	aagatggcgt	aacactggaa	acaagtttct	gtgacagtta	1260
tctataggtt	taagttgtga	tgcaagtga	ttgaaaaggc	ttgagattgg	agaattaatt	1320
caggccaggc	ttcaagacca	tcctgggcaa	catagccaga	ctaccatcta	taccagggtt	1380
cctcattccc	ccggccaccg	accggttaacc	ggtccctgtc	catggcacgt	tatgaattga	1440
gccgcacagc	tgaggggtga	gcgaacatta	accaactgag	ctccaccgcc	tgctcaggtta	1500
gctgcagcat	tagatagatt	ctcataagct	caaactgtat	tgtgaatggc	acatgcaagg	1560
gatctaggtt	tcaggctcct	tgtgacaatc	taatgcctga	tgatctgagg	ttggagcagt	1620
tttagtccgg	aaatcattgc	tcccagcccc	tgcacccctt	ggctcgtggg	ataattgtct	1680
tacacaaacg	gtctctgtg	tcaaaaagggt	tggagactac	tggtttttac	aaaaaagtaa	1740

attagtcgaag catggttgg

1759

&lt;210&gt; 688

&lt;211&gt; 207

&lt;212&gt; PRT

&lt;213&gt; Homo Sapiens

&lt;400&gt; 688

```

Met Ser Glu Thr Val Pro Ala Ala Ser Ala Ser Ala Gly Leu Ala Ala
 1          5          10          15
Met Glu Lys Leu Pro Thr Lys Lys Arg Gly Arg Lys Pro Ala Gly Leu
 20          25          30
Ile Ser Ala Ser Arg Lys Val Pro Asn Leu Ser Val Ser Lys Leu Ile
 35          40          45
Thr Glu Ala Leu Ser Val Ser Gln Glu Arg Val Gly Met Ser Leu Val
 50          55          60
Ala Leu Lys Lys Ala Leu Ala Ala Ala Gly Tyr Asp Val Glu Lys Asn
 65          70          75          80
Asn Ser Arg Ile Lys Leu Ser Leu Lys Ser Leu Val Asn Lys Gly Ile
 85          90          95
Leu Val Gln Thr Arg Gly Thr Gly Ala Ser Gly Ser Phe Lys Leu Ser
100          105          110
Lys Lys Val Ile Pro Lys Ser Thr Arg Ser Lys Ala Lys Lys Ser Val
115          120          125
Ser Ala Lys Thr Lys Lys Leu Val Leu Ser Arg Asp Ser Lys Ser Pro
130          135          140
Lys Thr Ala Lys Thr Asn Lys Arg Ala Lys Lys Pro Arg Ala Thr Thr
145          150          155          160
Pro Lys Thr Val Arg Ser Gly Arg Lys Ala Lys Gly Ala Lys Gly Lys
165          170          175
Gln Gln Gln Lys Ser Pro Val Lys Ala Arg Ala Ser Lys Ser Lys Leu
180          185          190
Thr Gln His His Glu Val Asn Val Arg Lys Ala Thr Ser Lys Lys
195          200          205

```

&lt;210&gt; 689

&lt;211&gt; 1464

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 689

```

agtaccgggt acgcaggggt gcctcaacca cactccgtcc acggactctc cggtatttta      60
ggagggtccct ggccaaagat ttatttctct tgacaaccaa gggcctccgt ctggatttcc      120
aaggaagaat ttctcttgaa gcaccggaac ttgtactac cagcaccatg ccctaccaat      180
atccagcact gaccccgag cagaagaagg agctgtctga catcgctcac cgcacgtgg      240
cacctggcaa gggcatcctg gctgcagatg agtccactgg gagcattgcc aagcggtgc      300
agtccattgg caccgagaac accgaggaga accggcgctt ctaccgccag ctgctgctga      360
cagctgacga ccgctgaac ccctgcattg ggggtgtcat cctcttccat gagacactct      420
accgaaggc ggatgatggg cgtcccttcc ccaagttat caaatccaag ggcggtgttg      480
tgggcatcaa ggtagacaag ggcgtggtcc ccctggcagg gacaaatggc gagactacca      540
cccaagggtt ggatgggctg tctgagcgtg gtgcccagta caagaaggac ggagctgact      600
tcgccaagtg gcgttgtgtg ctgaagattg gggaacacac cccctcagcc ctgcccata      660
tggaatatgc caatgttctg gcccgttatg ccagtatctg ccagcagaat ggcattgtgc      720
ccatcggtga gctgagatc ctccctgatg gggaccatga cttgaagcgc tgccagtatg      780
tgaccgagaa ggtgctggct gctgtctaca aggtctgag tgaccaccac atctacctgg      840

```

```

aaggcacctt gctgaagccc aacatggtca ccccaggcca tgcttgcaact cagaagtttt      900
ctcatgagga gattgccatg gcgaccgtca cagcgctgcg ccgcacagtg cccccgctg      960
tactgggat  caccttcttg tctggaggcc agagtgagga ggaggcgtcc atcaacctca      1020
atgccattaa caagtgcccc ctgctgaagc cctgggccct gaccttctcc tacggccgag      1080
ccctgcaggc ctctgccctg aaggcctggg gcgggaagaa ggagaacctg aaggctgcgc      1140
aggaggagta tgtcaagcga gccctggcca acagccttgc ctgtcaagga aagtacactc      1200
cgagcgggtca ggctggggct gctgccagcg agtccctctt cgtctctaac cagcctatt      1260
aagcggaggt gttcccaggc tgcccccaac aactccaggc cctgccccct cccactcttg      1320
aagaggaggc cgcctcctcg gggctccagg ctggcttgcc cgcgctcttt cttccctcgt      1380
gacagtgggtg tgtggtgtcg tctgtgaatg ctaagtccat caccctttcc ggcacactgc      1440
caaataaaca gctatttaag gggg                                     1464

```

&lt;210&gt; 690

&lt;211&gt; 363

&lt;212&gt; PRT

&lt;213&gt; Homo Sapiens

&lt;400&gt; 690

```

Pro Tyr Gln Tyr Pro Ala Leu Thr Pro Glu Gln Lys Lys Glu Leu Ser
 1          5          10          15
Asp Ile Ala His Arg Ile Val Ala Pro Gly Lys Gly Ile Leu Ala Ala
 20          25          30
Asp Glu Ser Thr Gly Ser Ile Ala Lys Arg Leu Gln Ser Ile Gly Thr
 35          40          45
Glu Asn Thr Glu Glu Asn Arg Arg Phe Tyr Arg Gln Leu Leu Leu Thr
 50          55          60
Ala Asp Asp Arg Val Asn Pro Cys Ile Gly Gly Val Ile Leu Phe His
 65          70          75          80
Glu Thr Leu Tyr Gln Lys Ala Asp Asp Gly Arg Pro Phe Pro Gln Val
 85          90          95
Ile Lys Ser Lys Gly Gly Val Val Gly Ile Lys Val Asp Lys Gly Val
100          105          110
Val Pro Leu Ala Gly Thr Asn Gly Glu Thr Thr Thr Gln Gly Leu Asp
115          120          125
Gly Leu Ser Glu Arg Cys Ala Gln Tyr Lys Lys Asp Gly Ala Asp Phe
130          135          140
Ala Lys Trp Arg Cys Val Leu Lys Ile Gly Glu His Thr Pro Ser Ala
145          150          155          160
Leu Ala Ile Met Glu Asn Ala Asn Val Leu Ala Arg Tyr Ala Ser Ile
165          170          175
Cys Gln Gln Asn Gly Ile Val Pro Ile Val Glu Pro Glu Ile Leu Pro
180          185          190
Asp Gly Asp His Asp Leu Lys Arg Cys Gln Tyr Val Thr Glu Lys Val
195          200          205
Leu Ala Ala Val Tyr Lys Ala Leu Ser Asp His His Ile Tyr Leu Glu
210          215          220
Gly Thr Leu Leu Lys Pro Asn Met Val Thr Pro Gly His Ala Cys Thr
225          230          235          240
Gln Lys Phe Ser His Glu Glu Ile Ala Met Ala Thr Val Thr Ala Leu
245          250          255
Arg Arg Thr Val Pro Pro Ala Val Thr Gly Ile Thr Phe Leu Ser Gly
260          265          270
Gly Gln Ser Glu Glu Glu Ala Ser Ile Asn Leu Asn Ala Ile Asn Lys
275          280          285
Cys Pro Leu Leu Lys Pro Trp Ala Leu Thr Phe Ser Tyr Gly Arg Ala

```

290                      295                      300  
 Leu Gln Ala Ser Ala Leu Lys Ala Trp Gly Gly Lys Lys Glu Asn Leu  
 305                      310                      315                      320  
 Lys Ala Ala Gln Glu Glu Tyr Val Lys Arg Ala Leu Ala Asn Ser Leu  
                     325                      330                      335  
 Ala Cys Gln Gly Lys Tyr Thr Pro Ser Gly Gln Ala Gly Ala Ala Ala  
                     340                      345                      350  
 Ser Glu Ser Leu Phe Val Ser Asn His Ala Tyr  
                     355                      360

<210> 691  
 <211> 1216  
 <212> DNA  
 <213> Homo Sapiens

<400> 691  
 atgctcctcg atgtggagcc gctggagcct acacttagca acatcatcga gcagcgcagc 60  
 ctgaagtggg tcttcgctcg gggcaagggt ggtgtgggca agaccacctg cagctgcagc 120  
 ctggcagtcg agctctccaa ggggctgtgag agtgtttctga tcatctccac agaccagca 180  
 cacaacatct cagatgcttt tgaccagaag ttctcaaagg tgccctacca ggtcaaaggc 240  
 tatgacaacc tctttgctat ggagattgac ccagcctgg gcgtggcgga cgtgcctgac 300  
 gagttcttctc agggagacaa catgctgagc atgggcaaga agatgatgca ggaggccatg 360  
 agcgcatttc ccggcatcga tgaggccatg agctatgccg aggtcatgag gctggtgaag 420  
 ggcattgaact tctcggtggt ggtatttgac acggcaccca cgggccacac cctgaggctg 480  
 ctcaacttcc ccaccatcgt ggagcggggc ctgggcccgc ttatgcagat caagaaccag 540  
 atcagccctt tcatctcaca gatgtgcaac atgctgggccc tgggggacat gaacgcagac 600  
 cagctggcct ccaagctgga ggagacgtcg ccgctcatcc gctcagtcag cgaacagtcc 660  
 aaggaccctg agcagacaac ttctcatctgc gtatgcattg ctgagttcct gtccctgtat 720  
 gagacagaga ggctgatcca ggagctggcc aagtgcaga ttgacacaca caatataatt 780  
 gtcaaccagc tcgtcttccc cgaccccgag aagccctgca agatgtgtga ggcccgctac 840  
 aagatccagg ccaagtatct ggaccagatg gaggacctgt atgaagactt ccacatcgtg 900  
 aagctgcccgc tgttacccca tgagggtgcgg ggggcagaca aggtcaacac cttctcggcc 960  
 ctctcctcgtg agccctacaa gccccccagt gcccagtagc acagctgcca gccccaccg 1020  
 ctgccatttc acactcacc tccacctcc ccacccctc ggggcagagt ttgcacaaag 1080  
 tcccccccat aatacagggg gagccacttg ggcaggaggc agggagggggt ccattccccc 1140  
 tgggtggggt ggtggggagc tgtagttgcc ccctacctct cccacctctt gctcttcaat 1200  
 aaatgatctt aaactg 1216

<210> 692  
 <211> 1958  
 <212> DNA  
 <213> Homo Sapiens

<400> 692  
 gctgctgcgc ccgcggtccc ccagtgcctc gagtgcctcg cgggccccgc gagcgggagt 60  
 gggacccagc cctaggcaga acccaggcgc cgcgccggg acgcccgcgc agagagccac 120  
 tcccggccac gtcccatttc gcccctcgcg tccggagtcc ccgtggccag atctaaccat 180  
 gagctaccct ggctatcccc cgcccccagg tggctaccca ccagctgcac caggtggtgg 240  
 tccctgggga ggtgctgect accctcctcc gccagcatg ccccccctcg ggctggataa 300  
 cgtggccacc tatgccccgc agttcaacca ggactatctc tcgggaatgg cggccaacat 360  
 gtctgggaca tttggaggag ccaacatgcc caacctgtac cctggggccc ctggggctgg 420  
 ctaccaccca gtgccccctg gcggctttgg gcagccccc tctgcccagc agcctgttcc 480  
 tccctatggg atgtatccac cccaggagg aaaccacccc tccaggatgc cctcatatcc 540  
 gccataccca ggggccccctg tgccgggcca gcccatgcca cccccggac agcagcccc 600  
 aggggcctac cctgggcagc caccagtgc ctacctggt cagcctccag tgccactccc 660

```

tgggcagcag cagccagtgc cgagctaccc aggataccgc gggctctggga ctgtcacccc 720
cgctgtgccc ccaaccaggt ttggaagccg aggcaccatc actgatgctc ccggctttga 780
ccccctgcga gatgccgagg tcctgcggaa ggccatgaaa ggcttcggga cggatgagca 840
ggccatcatt gactgcctgg ggagtcgctc caacaagcag cggcagcaga tcctactttc 900
cttcaagacg gcttacggca aggatttgat caaagatctg aaatctgaac tgtcaggaaa 960
ctttgagaag acaatcttgg ctctgatgaa gacccagtc ctctttgaca tttatgagat 1020
aaaggaagcc atcaaggggg ttggcactga tgaagcctgc ctgattgaga tcctcgcttc 1080
ccgcagcaat gagcacatcc gagaattaaa cagagcctac aaagcagaat tcaaaaagac 1140
cctggaagag gccattcgaa gcgacacatc agggcacttc cagcggctcc tcactctctc 1200
ctctcaggga aaccgtgatg aaagcacaaa cgtggacatg tcaactcgccc agagagatgc 1260
ccaggagctg tatgcggccg gggagaaccg cctgggaaca gacgagtcca agttcaatgc 1320
ggttctgtgc tcccgagcc gggccacct ggtagcagtt ttcaatgagt accagagaat 1380
gacaggcccg gacattgaga agagcatctg ccgggagatg tccggggacc tggaggaggg 1440
catgctggcc gtggtgaaat gtctcaagaa taccacagcc ttctttgcgg agaggctcaa 1500
caaggccatg aggggggcag gaacaaagga ccggaccctg attcgcatca tgggtgtctc 1560
cagcgagacc gacctcctgg acatcagatc agagtataag cggatgtacg gcaagtcgct 1620
gtaccacgac atctcgggag atacttcagg ggattaccgg aagattctgc tgaagatctg 1680
tgggtggcaat gactgaacag tgactgggtg ctcaattctg cccacctgcc ggcaacacca 1740
gtgccaggaa aaggccaaaa gaatgtctgt ttctaacaaa tccacaaata gccccgagat 1800
tcaccgtcct agagcttagg cctgtcttcc accctcctg acccgatatg tgtgccacag 1860
gacctgggtc ggtctagaac tctctcagga tgcttttct accccatccc tcacagcctc 1920
ttgctgctaa aatagatggt tcatttttct gaaaaaaa 1958

```

&lt;210&gt; 693

&lt;211&gt; 505

&lt;212&gt; PRT

&lt;213&gt; Homo Sapiens

&lt;400&gt; 693

```

Met Ser Tyr Pro Gly Tyr Pro Pro Pro Gly Gly Tyr Pro Pro Ala
1 5 10 15
Ala Pro Gly Gly Gly Pro Trp Gly Gly Ala Ala Tyr Pro Pro Pro
20 25 30
Ser Met Pro Pro Ile Gly Leu Asp Asn Val Ala Thr Tyr Ala Gly Gln
35 40 45
Phe Asn Gln Asp Tyr Leu Ser Gly Met Ala Ala Asn Met Ser Gly Thr
50 55 60
Phe Gly Gly Ala Asn Met Pro Asn Leu Tyr Pro Gly Ala Pro Gly Ala
65 70 75 80
Gly Tyr Pro Pro Val Pro Pro Gly Gly Phe Gly Gln Pro Pro Ser Ala
85 90 95
Gln Gln Pro Val Pro Pro Tyr Gly Met Tyr Pro Pro Pro Gly Gly Asn
100 105 110
Pro Pro Ser Arg Met Pro Ser Tyr Pro Pro Tyr Pro Gly Ala Pro Val
115 120 125
Pro Gly Gln Pro Met Pro Pro Gly Gln Gln Pro Pro Gly Ala Tyr
130 135 140
Pro Gly Gln Pro Pro Val Thr Tyr Pro Gly Gln Pro Pro Val Pro Leu
145 150 155 160
Pro Gly Gln Gln Gln Pro Val Pro Ser Tyr Pro Gly Tyr Pro Gly Ser
165 170 175
Gly Thr Val Thr Pro Ala Val Pro Pro Thr Gln Phe Gly Ser Arg Gly
180 185 190
Thr Ile Thr Asp Ala Pro Gly Phe Asp Pro Leu Arg Asp Ala Glu Val
195 200 205

```



Leu Arg Lys Ala Met Lys Gly Phe Gly Thr Asp Glu Gln Ala Ile Ile  
 210 215 220  
 Asp Cys Leu Gly Ser Arg Ser Asn Lys Gln Arg Gln Gln Ile Leu Leu  
 225 230 235 240  
 Ser Phe Lys Thr Ala Tyr Gly Lys Asp Leu Ile Lys Asp Leu Lys Ser  
 245 250 255  
 Glu Leu Ser Gly Asn Phe Glu Lys Thr Ile Leu Ala Leu Met Lys Thr  
 260 265 270  
 Pro Val Leu Phe Asp Ile Tyr Glu Ile Lys Glu Ala Ile Lys Gly Val  
 275 280 285  
 Gly Thr Asp Glu Ala Cys Leu Ile Glu Ile Leu Ala Ser Arg Ser Asn  
 290 295 300  
 Glu His Ile Arg Glu Leu Asn Arg Ala Tyr Lys Ala Glu Phe Lys Lys  
 305 310 315 320  
 Thr Leu Glu Glu Ala Ile Arg Ser Asp Thr Ser Gly His Phe Gln Arg  
 325 330 335  
 Leu Leu Ile Ser Leu Ser Gln Gly Asn Arg Asp Glu Ser Thr Asn Val  
 340 345 350  
 Asp Met Ser Leu Ala Gln Arg Asp Ala Gln Glu Leu Tyr Ala Ala Gly  
 355 360 365  
 Glu Asn Arg Leu Gly Thr Asp Glu Ser Lys Phe Asn Ala Val Leu Cys  
 370 375 380  
 Ser Arg Ser Arg Ala His Leu Val Ala Val Phe Asn Glu Tyr Gln Arg  
 385 390 395 400  
 Met Thr Gly Arg Asp Ile Glu Lys Ser Ile Cys Arg Glu Met Ser Gly  
 405 410 415  
 Asp Leu Glu Glu Gly Met Leu Ala Val Val Lys Cys Leu Lys Asn Thr  
 420 425 430  
 Pro Ala Phe Phe Ala Glu Arg Leu Asn Lys Ala Met Arg Gly Ala Gly  
 435 440 445  
 Thr Lys Asp Arg Thr Leu Ile Arg Ile Met Val Ser Arg Ser Glu Thr  
 450 455 460  
 Asp Leu Leu Asp Ile Arg Ser Glu Tyr Lys Arg Met Tyr Gly Lys Ser  
 465 470 475 480  
 Leu Tyr His Asp Ile Ser Gly Asp Thr Ser Gly Asp Tyr Arg Lys Ile  
 485 490 495  
 Leu Leu Lys Ile Cys Gly Gly Asn Asp  
 500 505

&lt;210&gt; 694

&lt;211&gt; 1141

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 694

cgcagcttgc	aaatggcgtc	tccctcgctg	gagcggccag	aaaaaggcgc	tggaaaaagt	60
gaatttcgta	accagaagcc	gaagccggag	aaccaagatg	aatcagaact	ccttacggtt	120
cctgatgggt	ggaaggaacc	agctttttcc	aaagaggaca	atcccagagg	acttttggag	180
gagagcagtt	tcgcaacttt	gttcccaaaa	tacaggggaag	cttacttgaa	agagtgttgg	240
ccattgggtg	agaaagcctt	aaatgaacat	catgttaatg	caaccctgga	cctgatcgaa	300
ggcagcatga	ctgtttgtac	tacaaagaag	acttttgatc	catatatcat	cattagggcc	360
agagatctga	taaaactgtt	agcaaggagt	gtttcatttg	aacaggcagt	acgaattcct	420
caggatgatg	ttgcatgtga	catcattaaa	ataggttctt	tagtaaggaa	taaagagaga	480
tttgtaaaac	gaagacaacg	gcttattggt	cccaaaggat	ctacattgaa	ggcattggaa	540
ctcttaacta	attgttacat	tatggttcag	ggaacacag	tttcagccat	tggacctttt	600

```

agtggcttaa aagagggttag aaaagtagtc cttgatacta tgaagaatat tcatccaatt 660
tataacatta aaagcttaaat gattaagaga gagttggcaa aagattctga attacgatca 720
caaagttggg agagatTTTT gccacagttc aaacacaaaa atgtgaataa acgcaaggaa 780
ccaaagaaaa aaactgttaa gaaagatata cgccattccc accaccacaa ccagaaaagtc 840
agatcgataa agaattggct agtgggtgaat actttttgaa ggcaaatcag aagaagcggc 900
agaaaatgaa gcaataaagg ctaaacaagc agaagccatc agtaagagac aagaggaaaag 960
aaacaaagca ttattccac ctaaggaaaa accaattgtg aaacctaagg aagcttctac 1020
tgaaactaaa attgatgtgg ccagcatcaa ggaaaagggtt aagaaagcaa agaataagaa 1080
actgggagct cttacagctg aagaaattgc acttaagatg gaggcagatg aaaaaaaaaa 1140
a 1141

```

&lt;210&gt; 695

&lt;211&gt; 288

&lt;212&gt; PRT

&lt;213&gt; Homo Sapiens

&lt;400&gt; 695

```

Met Ala Ser Pro Ser Leu Glu Arg Pro Glu Lys Gly Ala Gly Lys Ser
1      5      10      15
Glu Phe Arg Asn Gln Lys Pro Lys Pro Glu Asn Gln Asp Glu Ser Glu
20     25     30
Leu Leu Thr Val Pro Asp Gly Trp Lys Glu Pro Ala Phe Ser Lys Glu
35     40     45
Asp Asn Pro Arg Gly Leu Leu Glu Glu Ser Ser Phe Ala Thr Leu Phe
50     55     60
Pro Lys Tyr Arg Glu Ala Tyr Leu Lys Glu Cys Trp Pro Leu Val Gln
65     70     75     80
Lys Ala Leu Asn Glu His His Val Asn Ala Thr Leu Asp Leu Ile Glu
85     90     95
Gly Ser Met Thr Val Cys Thr Thr Lys Lys Thr Phe Asp Pro Tyr Ile
100    105    110
Ile Ile Arg Ala Arg Asp Leu Ile Lys Leu Leu Ala Arg Ser Val Ser
115    120    125
Phe Glu Gln Ala Val Arg Ile Leu Gln Asp Asp Val Ala Cys Asp Ile
130    135    140
Ile Lys Ile Gly Ser Leu Val Arg Asn Lys Glu Arg Phe Val Lys Arg
145    150    155    160
Arg Gln Arg Leu Ile Gly Pro Lys Gly Ser Thr Leu Lys Ala Leu Glu
165    170    175
Leu Leu Thr Asn Cys Tyr Ile Met Val Gln Gly Asn Thr Val Ser Ala
180    185    190
Ile Gly Pro Phe Ser Gly Leu Lys Glu Val Arg Lys Val Val Leu Asp
195    200    205
Thr Met Lys Asn Ile His Pro Ile Tyr Asn Ile Lys Ser Leu Met Ile
210    215    220
Lys Arg Glu Leu Ala Lys Asp Ser Glu Leu Arg Ser Gln Ser Trp Glu
225    230    235    240
Arg Phe Leu Pro Gln Phe Lys His Lys Asn Val Asn Lys Arg Lys Glu
245    250    255
Pro Lys Lys Lys Thr Val Lys Lys Asp Ile Arg His Ser His His His
260    265    270
Asn Gln Lys Val Arg Ser Ile Lys Asn Trp Leu Val Val Asn Thr Phe
275    280    285

```

&lt;210&gt; 696

&lt;211&gt; 1008

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 696

```

agcaggctag gaagactgca tcagttctta gtaaagatga tgtggcacct gaaagtgggtg      60
atactacagt gaagaaacct gaatcaaaga aggaacagac cccagagcat gggaagaaaa      120
aacgtggcag aggaaaagcc caagttaaag caacaaatga atccgaagac gaaatcccac      180
agctgggtacc aataggaaaag aagactccag ctaatgaaaa agtagagatt caaaaacatg      240
ccacaggggaa gaagtctcca gcaaagagtc ctaatcccag cacacctcgt gggaagaaaa      300
agaaaaggctt tgccagcatc tgagacccca aaagctgcag agtctgagac cccagggaaa      360
agcccagaga agaagcctaa aatcaaagaa gaggcagtga aggaaaaaag tccttcgctg      420
gggaaaaaag atgcgagaca gactcccaaa aaagccagag gccaagtttt tcaccattcc      480
tagtaaatct gtgagaaaag cttccacac ccccaaaaaa tggcccaaaa aacccaaagt      540
accccagtcg acctaaagtc agtgattcaa ctggaaggaa acctcaatgc tgccctcaga      600
gctttttgga aatactcaga tcttgccgc ctttctaacc ttctctaaac gtcaggcctg      660
gacttaaaag attttttaaa acctccataa gtagtccagg ggcggtggct cagcctgta      720
atcccagcac tttgggaggc cgaggcaggc ggatcacaag gtcaacgaga tcgagaccat      780
cctggccaac atggtgaaac cctgtctgta caaaaatac aaaaattaat tgggcatggt      840
ggtggacacc tgtaatccca gctactaggg aggtcagggc aggagaattg cttgaacctg      900
ggaggcggag gttgcagtga gccactgcac tccagcctga tgacagagca agactcagtc      960
tcaaaaataa ataaaaataa taaaacctcc ataagtaatc ctgaaaaa      1008

```

&lt;210&gt; 697

&lt;211&gt; 685

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 697

```

acgagctgca ctccagcctg ggcgacagag ggaaactcca tctcaaaaaa aaaaaanaaa      60
aaaaanaaaa aagaaaaaag anaatgccca gcgcggtggc taatgcctgt aaccctagtg      120
agacagccaa gtaaaaacgg ctcccaagac aatctacaag cactgggagg atgggggtgca      180
gcacaaaaat gttcacacca tttgcagagg ggaacagcct ggcacctgct gttccaggat      240
agtaaccagg aattcagttg gtgagatgga cagcctgtta gcaggactcc atctcacttt      300
gctgtgttgt tctttttccc ttttgcccaa taaattngta acctctacc tttcaaagt      360
tctgcgtgcc taatctttcc ctgccatgtg accagaaccc ggttttgttt acaacaccag      420
cactttggga ggcgaagatg ggctgattgc ttgagctcag gggtttaaga acagcctggg      480
caacatagtg aaaccctagt ttttaccaaa aatacgaaaa ttaaccaggc atgcctgtta      540
tcccagctga ggcacaagaa tcccttgaa cccaggcggc gaanncta attnnaaccga      600
aaatttgcnc ccactggccc cccaggcggc aagctagtga gccgagattg cgccactgca      660
cccctgagac gctgtntcaa aaaaaa      685

```

&lt;210&gt; 698

&lt;211&gt; 1205

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 698

```

ggcacgaggg tgtaggccgc tgcaggccnc catganccgg ctcccgatg actacgaccc      60
ctacgcggtt gaagagccta gcgacgagga gccggtcttg agcagctctg aggatgaagt      120
ggatgtgctt ttacatggaa ctccctgacca aaaacgaaaa ctcatcagag aatgtcttac      180
cggagaaagt gaatcatcta gtgaagatga atttgaaaag gagatggaag ctgaattaaa      240
ttctaccatg aaaacaatgg aggacaagtt atcctctctg ggaactggat cttcctcagg      300
aaatggaaaa gttgcaacag ctccgacaag gtactacgat gatatatatt ttgattctga      360
ttccgaggat gaagacagag cagtacaggt gaccaagaaa aaaaagaaga aacaacacaa      420

```

gattccaaca	aatgacgaat	tactgtntga	tcctgaaaa	gataacagag	atcaggcctg	480
ggttgatgca	cagagaagg	gttaccatgg	tttgggacca	cagagatcac	gtcaacaaca	540
gcctgttcca	aatagtgatg	ctgtcttgan	ttgtcctgcc	tgcatgacca	cactttgcct	600
tgattgccaa	aggcatgant	catacaaaac	tcaatataga	gcaatgtttg	taatgaattg	660
ttctattaac	aaagaggagg	ttctaagata	taaagcctca	gagaacagga	agaaaaggcg	720
ggtccataag	aagatgaggt	ctaaccggga	agatgctgcc	gagaaggcag	agacagatgt	780
ggaagaaatc	tatcacccag	tcatgtgcac	tgaatgttcc	actgaagtgg	cagtctacga	840
caaggatgaa	gtctttcatt	ttttcaatgt	tttagcaagc	cattcctaaa	cagcccaact	900
ggcatttaat	tacccaatac	tgtatataag	gcaaatatgg	acagttactt	tcctcttgcc	960
tgttcatatc	cttcagtgac	attgaggaag	cagtgtttct	ctttttaaaag	gagaatagtt	1020
gtcaaccctt	attcatctct	tacatctctc	accctctcct	tttttttttc	tttgattttc	1080
ccccttattg	atgggactga	tattcattct	gtttttgatg	aacatttgga	aactgtcggg	1140
ctttttatta	aagctctgta	gaattaaaat	gttctggaat	tataagcaaa	aaaaaaaaaa	1200
aaaaa						1205

&lt;210&gt; 699

&lt;211&gt; 1427

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 699

anannnctgg	agccgcgcgc	ctcgcaggtc	gacactagtg	gatccaaaga	attcggcacg	60
agcagtggta	gcaaatgaag	ccaaactgta	tcttgaaaa	cctgttggtc	ctttaaatat	120
gatgttgcca	caagctgcat	tggagactca	ttgcagtaat	atttccaatg	tgccacctac	180
aagagagata	cttcaagtct	ttcttactga	tgtacacatg	aaggaagtaa	ttcagcagtt	240
cattgatgtc	ctgagtgtag	cagtcaagaa	acgtgtcttg	tgtttaccta	gggatgaaaa	300
cctgacagca	aatgaagttt	tgaaaacgtg	tgataggaaa	gcaaatgttg	caatcctgtt	360
ttctgggggc	attgattcca	tggttattgc	aacccttgct	gaccgtcata	ttccttttaga	420
tgaaccaatt	gatcttctta	atgtagcttt	catagctgaa	gaaaagacca	tgccaactac	480
ctttaacaga	gaaggggaata	aacagaaaaa	taaatgtgaa	ataccttcag	aagaattctc	540
taaagatggt	gctgctgctg	ctgctgacag	tcctaataaa	catgtcagtg	taccagatcg	600
aatcacagga	agggcgggac	taaaggaaact	acaagctggt	agcccttccc	gaatttgga	660
ttttgttgaa	attaatgttt	ctatggaaga	actgcagaaa	ttaagaagaa	ctcgaatatg	720
tcacttaatt	cggccattgg	atacagtttt	ggatgatagc	attggctgtg	cagtctgggt	780
tgcttctaga	ggaattgggt	ggttagtggc	ccaggaagga	gtgaaatcct	atcagagcaa	840
tgcaaaaggta	gttctcactg	gaattggtgc	agatgagcaa	cttgcagggt	attctcgtca	900
tcgtgtccgc	tttcagtcgc	atgggctgga	aggattgaat	aaggaaataa	tgatggaact	960
gggtcgaatt	tcttctagaa	atcttggtcg	tgatgacaga	gttattgggtg	atcatggaaa	1020
agaagcaaga	tttcccttcc	tggtgaaaa	tggtgtctcc	tttctaaatt	ctctgccgat	1080
ttgggaaaaa	gcaaacttga	ctttaccctg	aggaattggt	gaaaaattac	ttttacgcct	1140
tgagctgtg	gaacttggtc	ttacagcctc	tgctcttctc	gccaaacggg	ccatgcagtt	1200
tggtatcaaga	attgcaaaaa	tggaaaaaat	taatgaaaag	gcatctgata	aatgtggacg	1260
gtcccaaatc	atgtccttag	aaaatctttc	tattgaaaag	gagactaaat	tgtaatgtga	1320
ttcacaaatg	aacaatataa	aaataagttt	ttatataatt	atataaaagt	aagatactct	1380
gctgctttac	tattgtataa	tatagtagtt	ttaaagttca	aaaaaaa		1427

&lt;210&gt; 700

&lt;211&gt; 1967

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 700

ggcacgaggg	aaagaggtag	gaaatgatga	aggaaaagta	attcgggttcc	attgtaaatt	60
atgcgagtag	agctttaatg	atcccaatgc	taaggagatg	cacttaaaag	ggcgaagaca	120
cagacttcaa	tataaaaaaa	aagtaaatcc	agatttgcaa	gtagaagtaa	agcctagtat	180

tcgagcaaga	aagattcaag	aagagaaaat	gaggaaagcaa	atgcagaagg	aggagtactg	240
gcgaagacga	gaagaagagg	agcgttgagg	aatggaaatg	agacgttatg	aagaggacat	300
gtactggagg	agaatggagg	aagaacaaca	tcattgggat	gatcgccgcc	gaatgccaga	360
tgagggttat	cctcatggtc	ctccaggccc	attaggcctt	ctgggagtc	gaccaggcat	420
gcctcctcag	cctcaggggc	ctgcaccctt	acgtcgtcct	gactcatctg	atgaccggtt	480
ctgggagtc	gaccaggcat	gcctcctcag	cctcaggggc	ctgcaccctt	acgtcgtcct	540
gactcatctg	atgaccgtta	tgtaatgaca	aaacatgcc	ccatttatcc	aactgaagag	600
gagttacagg	cagttcagaa	aattgtttct	attactgaac	gtgctttaa	actcgtttca	660
gacagtttgt	ctgaacatga	gaagaacaag	aacaaagagg	gagatgataa	gaaagaggga	720
ggtaaagaca	gagctttgaa	aggagttttg	cgagtgggag	tatttgcaaa	agggattact	780
tctcccggag	atagaaatgt	caacctgtgt	ttgctgtgtc	agagaaacct	tcaaagacat	840
tattaagccg	tattgcagaa	aacctacc	aacagcttgc	tgttataagc	cctgagaagt	900
atgacataaa	atgtgctgta	tctgaagcgg	caataatttt	gaattcatgt	gtggaacca	960
aaatgcaagt	cactatcaca	ctgacatctc	caattattcg	agaagagAAC	atgagggaag	1020
gagatgtaac	ctcgggtatg	gtgaaagacc	caccggacgt	cttggacagg	caaaaatgcc	1080
ttgacgctct	ggctgctcta	cgccacgcta	agtgggtcca	ggctagagct	aatgggtctg	1140
agtcctgtgt	gattatcata	cgcattcttc	gagacctctg	tcagcgagtt	ccaacttggt	1200
ctgattttcc	aagctgggct	atggagttag	tagtagagaa	agcaatcagc	agtgccttcta	1260
gccctcagag	ccctggggat	gcactgagaa	gagtttttga	atgcatttct	tcagggatta	1320
ttcttaaagg	tagtcttgga	cttctggatc	cttctgaaaa	ggatcccttt	gataccttgg	1380
caacaatgac	tgaccagcag	cgtgaagaca	tcacatccag	tgacagttt	gcattgagac	1440
tccttgcat	ccgccagata	cacaaagttc	taggcattgga	tccattaccg	caaatgagcc	1500
aacgttttaa	catccacaac	aacaggaaac	gaagaagaga	tagtgatgga	gttgatggat	1560
ttgaagctga	ggggaaaaaa	gacaaaaaag	attatgataa	cttttaaaaa	gtgtctgtaa	1620
atcttcagtg	ttaaaaaaac	agatgcccac	ttgttggtcg	tttttcattc	ataataatgt	1680
ctacattgaa	aaatttatca	agaatttaaa	ggatttcattg	gaagaaccaa	gtttttctat	1740
gatattaaaa	aatgtacagt	gttaggtatt	atgtgaatgg	aaagacaccc	aaaaaaaaaa	1800
atgtgctccg	actaggggga	aaacagtagt	tccgattttt	tcccattatt	tttattttat	1860
tttctggttg	ccctagcttc	ccccctatt	tttgtgtctt	ttattaacta	gtgcattgtc	1920
ttattaaatc	ttcactgtat	taaaaaaaga	aaaaaaaaaa	acaaaaaa		1967

&lt;210&gt; 701

&lt;211&gt; 3423

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 701

ggtgaagaat	gaaatcgtgg	cgaatgtggg	gaaaagagaa	atcttgcaaca	atactgagaa	60
agaacaacac	acagaggaca	cagtgaagga	ttgtgtggac	atagagggtat	tcactgctgg	120
tgagaataacc	gaggaccaga	aatcctctga	agacactgcc	ccattcctag	gaaccttagc	180
aggtgctacc	tatgaggaaac	aggttcaaag	ccaaattctt	gagagcgctt	ctctccctga	240
aaacacagca	caggttgagt	caaatgaggt	catgggtgca	ccagatgaca	ggaccagaac	300
tccccttgag	ccatccaact	gttgagtgta	cttagatggg	gggagccaca	cagagaatgt	360
gggagaggca	gcggtgactc	tccccttgag	ccatccaact	gttgagtgta	cttagatggg	420
gggagccaca	cagagaatgt	gggagaggca	gcagtgactc	aggttgaaga	gcaggcaggc	480
acagtggcct	cgtgtccttt	agggcatagt	gatgacacag	tttatcatga	tgacaaatgt	540
atggtagagg	tcccccaaga	gttagagaca	agcacagggc	atagtttga	gaaagaattc	600
accaaccagg	aagcagctga	gcccaggag	gttccagcgc	acagtacaga	agtaggtagg	660
gacacaacg	aagaagagg	tgaagaaaca	ggattaagg	acgagaaacc	aatcaagaca	720
gaattcctgg	ttctccagca	ggaactgagg	gcaactgtca	ggaagcgaca	ggtccaagta	780
cagtagacac	tcaaaatgaa	cccttagata	tgaagagacc	cgatgaagaa	aagagtgacc	840
aacaggggaga	ggcattggac	catcgagaa	gaagacaaag	aacaagaaaa	aaaaaaaaaa	900
aaaaaaagcg	ggttctagg	cgccgggcgc	tcgggcctcg	gccatggctc	acaggccgaa	960
aaggactttt	cggcagcgcg	cggctgattc	cagcgacagc	gatggcgccg	aggagtcgcc	1020
tgctgagcct	ggggcgccga	gggaacttcc	ggtcccgggt	tctgcggagg	aagagccgcc	1080

ctctggaggga	ggccgcgcgc	aggtggcggg	actgccccac	cgggttcggg	gccctcgtgg	1140
ccggggccgg	gtctgggcca	gctccggcg	tgccacccaa	gcggctcccc	gcgcggacga	1200
aggctcagaa	tccagaaccc	ttgatgtgtc	cacagatgaa	gaggataaaa	tacatcactc	1260
ctcagaaagt	aaggatgatc	agggtttgtc	ttctgacagt	tctagctctc	ttggagaaaa	1320
agaactttca	tcaacagtta	agatcccaga	tgacgttttt	attcaggcag	ccgcagaaaa	1380
acgttgaaat	ggccaggggc	caagatgact	atatttcttt	ggatgtacaa	catacctcct	1440
ccatctctgt	aagcagaaat	gaagaaacaa	gtgaagaaag	tcaggaagat	gaaaagcaag	1500
atacttggga	acaacagcaa	atgaggaaag	cagttaaaat	catagaggaa	agagacatag	1560
atctttcctg	tggcagtggg	tcttcaaaag	tgaagaaatt	tgatacttcc	atttcatttc	1620
cgccagtaaa	tttagaaatt	ataaagaagc	aattaaatac	tagattaaca	ttactacagg	1680
aaactcaccg	ctcacacctg	agggagtatg	aaaaatacgt	acaagatgtc	aaaagctcaa	1740
agagtacat	ccagaaccta	gagagtccat	caaatacagc	tctaaattgt	aaattctata	1800
aaagcatgaa	aatttatgtg	gaaaatttaa	ttgactgcct	taatgaaaag	attatcaaca	1860
tccaagaaat	agaatcatcc	atgcatgcac	tccttttaaa	acaagctatg	acctttatga	1920
aacgcaggca	agatgaatta	aaacatgaat	caacgtattt	acaacagtta	tcacgcaaaag	1980
atgagacatc	cacaagtggg	aacttctcag	tagatgaaaa	aactcagtgg	attttagaag	2040
agattgaatc	tcgaaggaca	aaaagaagac	aagcaagggt	gctttctggg	aattgtaacc	2100
atcaggaagg	aacatctagt	gatgatgaac	tgcttccagc	agagatgatt	gacttccaaa	2160
aaagccaagg	tgacatttta	cagaaacaga	agaaagtttt	tgaagaagtg	caagatgatt	2220
tttgtaacat	ccagaatatt	ttgttgaaat	ttcagcaatg	gcgagaaaag	tttctcgact	2280
cctattatga	agctttcatt	agtttatgca	taccaaagct	tttaaattccc	ctaatacgag	2340
ttcagttgat	tgattggaat	cctcttaagt	tggaatccac	aggtttataa	gagatgccat	2400
ggttcaaatc	tgtagaagaa	tttatggata	gcagtgtaga	agattcaaaag	aaggaaagta	2460
gttcagataa	aaaagtcttg	tctgcaatca	tcaacaaaac	aattattccc	cgacttacag	2520
actttgtaga	attccttttg	gatcctttgt	caacctcaca	gacaacaagt	ttaataacac	2580
attgcagagt	gattcttgaa	gaacattcca	cttgtagaaa	tgaagttagt	aaaagcagac	2640
aggattttact	taaattccatt	gtttcaagaa	tgaaaaaggc	agtagaagat	gatgttttta	2700
ttcctctgta	tccaaagagt	gctgtagaaa	acaaaacatc	acctcattca	aagttccaag	2760
aaagacagtt	ctggtcaggc	ctaaagctct	tccgcaatat	tcttcttttg	aatggactcc	2820
ttacagatga	caccttgcaa	gaactaggac	tagggaagct	gctaaatcgt	taccttatta	2880
tagcacttct	caatgccaca	cctgggccag	atgtggttaa	aaagtgcac	caggtagcag	2940
catgtctacc	agaaaaatgg	tttgaaaatt	ctgccatgag	gacatctatt	ccacagctag	3000
aaaacttcat	tcagttttta	ttgcagtctg	cacataaatt	atctagaagt	gaattcaggg	3060
atgaagtcca	agaaataatt	cttatttttg	tgaaaaataa	agctttgaat	caagcagaat	3120
ccttcatagg	agagcatcac	ctagaccatc	ttaaatcact	aattaaagaa	gattgaataa	3180
actttatttg	aaaatgctaa	aattttaata	tagttacact	cagttccttt	gtttgagaag	3240
aaagctgggtc	ctctctcttc	tttattccct	gtaatagaag	gtaggatttg	aaaaaaagca	3300
ggactccacc	tctgtattcc	cccgtgcttt	accttctggc	atcatgaaaa	gctgccatga	3360
ttctgtgggt	ttctaaggaa	ttaaatgcac	tggagcttta	agagctcaac	gtgtttccct	3420
ttg						3423

&lt;210&gt; 702

&lt;211&gt; 1106

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 702

ggcagcagca	gagacgtgc	aaattgcttg	tggacgggtg	aggccgctgc	aggccaccat	60
gaaaccggct	tccgatgac	tacgaccctt	acgcggttga	agagcctagc	gacgaggagc	120
cggcttttag	cagctctgag	gatgaagtgg	atgtgctttt	acatggaact	cctgacccaa	180
aacgaaaact	catcagagaa	tgtcttaccg	gagaaagtga	atcatctagt	gaagatgaat	240
ttgaaaagga	gatggaagct	gaattaaatt	ctaccatgaa	aacaatggag	gacaagttaa	300
cctctctggg	aactggatct	tcctcaggaa	atggaaaagt	tgcaacagct	ccgacaagggt	360
actacgatga	tatatatttt	gattctgatt	ccgaggatga	agacagagca	gtacagggtga	420
ccaagaaaaa	aaagaagaaa	caacacaaga	ttccaacaaa	tgacgaatta	ctgtatgatc	480

ctgaaaaaga	taacagagat	caggcctggg	ttgatgcaca	gagaaggggt	taccatgggt	540
tgggaccaca	gagatcacgt	caacaacagc	ctgttccaaa	tagtgatgct	gtcttgaatt	600
gtcctgcttg	catgaccaca	ctttgccttg	attgccaaag	gcatgaatca	tacaaaactc	660
natatagagc	aatgtttgtt	atgaattgtt	ctattaacaa	agaggaagtt	ctaagatatn	720
aagcctcnga	naacaggaag	aaaaggcggg	tccatnaaaa	aaataagggtc	taaccgggaa	780
gatctgncca	naaggcagaa	acagatgtgg	aaaaaatcta	tcncccntcc	tgtnccctga	840
atgttccctg	aaattggagt	ctacaacaag	gatnaattct	tcnntttttc	cntgttttag	900
caagccntcc	taaacngccc	nctggctttt	atttccccat	actgttttta	agggcaaatt	960
tggacagtcc	cttncccttt	gcccgntcnt	ntccctcntt	gacttgaagg	aaccatnttt	1020
ccnnttttaa	gggaaaaaat	tggtcacctc	cttccctctc	taattcctcc	ccccncctt	1080
ttttttcctt	gaattncccc	cttntg				1106

&lt;210&gt; 703

&lt;211&gt; 1095

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 703

tgcgcctcct	cttcctcttc	ttcttcttct	tcttctctct	cttcttagct	tccttcacca	60
aatcgcaactg	gctcctggac	tcttttcccta	tcttcaccac	gaactgctgc	ttgctcgctt	120
gtcctcagct	ctagcttcca	tcaaacactg	gttctctggaa	tcctgtctgc	tgctgtcttc	180
ctanattcac	tgaatccact	tctgtgtagc	acctgggtca	gctgtcaatt	aatgctagtc	240
ctcaggattt	aaaaaataat	cttaactcaa	agtccaatgc	aaaaacatta	agttggtaat	300
tactcttgat	cttgaattac	ttccgttacg	aaagtccttc	acattttttca	aactaagcta	360
ctatatttaa	ggccttccaa	attcttctaa	ctcttccaaa	agccttctgc	cttagttttt	420
tttaaattac	accagtcctt	ttagtagctt	ttgatgtga	tttttaacca	acttccccct	480
ctagcttcaa	gtattcttct	aaattgggtc	tgggtctacgt	aaacaccctc	atcttctcaa	540
gctttacctt	ctaacttctg	caccaccaga	aattaaattg	atgggctttt	aaaataaatt	600
ggttacaata	atttctctcat	tttttcagtg	ctattttatc	caatttttgg	ctttatatatt	660
ttctatcttc	tatactcttc	caatactgtc	ttagcttggt	tttcattttc	tatctgaaac	720
tcttgaataa	aaatttcattt	tctatcttgt	tctatcttct	caaattttct	tctaaatttg	780
tacattttgc	ccttaacttt	ttggtttctt	aacntgggtc	ttttctcccg	cctcctaatt	840
ttcanggttt	aaatttatct	tttttctctc	naaaaatttg	nttttaanct	nccaaattnc	900
ccnaacctnc	nctaatecnt	ttccttcgcc	ttcccgtnat	ttcttgtntt	ccaattttcc	960
acttcaaatt	ctatcttccc	aaaatttttt	ctnccaacnc	cccaaataaa	acttcccnnt	1020
tncgtcgggn	ttaataaaaag	ntttaanagg	gttaaaaagaa	annaatcccc	cngttttgga	1080
attnanggtt	ttaaa					1095

&lt;210&gt; 704

&lt;211&gt; 1968

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 704

cggcagccct	cctacctgcg	cacgtgggtc	cgctgctgct	gcctcccgtc	cgccctgaac	60
ccagtgcctg	cagccatggc	tcccggccag	ctcgccttat	ttagtgtctc	tgacaaaacc	120
ggccttggtg	aatttgcaag	aaacctgacc	gctcttggtt	tgaatctggt	cgcttccgga	180
gggactgcaa	aagctctcag	ggatgctggt	ctggcagtca	gagatgtctc	tgagttagacg	240
ggatttctctg	aaatgttggg	gggacgtgtg	aaaactttgc	atcctgcagt	ccatgctgga	300
atcctagctc	gtaatatcc	agaagataat	gctgacatgg	ccagacttga	tttcaatctt	360
ataagagtgtg	ttgcctgcaa	tctctatccc	tttgtaaaga	cagtggcttc	tccaggtgta	420
actgttgagg	aggctgtgga	gcaaattgac	attggtggag	taaccttact	gagagctgca	480
gccaaaaacc	acgctcgagt	gacagtgggtg	tgtgaaccag	aggactatgt	ggtggtgtcc	540
acggagatgc	agagctccga	gagtaaggac	acctccttgg	agactagacg	ccagtttagcc	600
ttgaaggcat	tcactcatat	ggcacatat	gatgaagcaa	tttcagatta	tttcaggaaa	660

cagtacagca	aaggcgtatc	tcagatgccc	ttgagatatg	gaatgaaccc	acatcagacc	720
cctgcccagc	tgtacacact	gcagcccaag	cttcccatca	cagttctaaa	tggagcccct	780
ggatttataa	acttgtgcga	tgctttgaac	gcctggcagc	tggatgaagg	actcaaggag	840
gcttttagta	ttccagccgc	tgctcttttc	aaacatgtca	gccagcagg	tgtgtgtgtt	900
ggaattccac	tcagtgaaga	tgaggccaaa	gtctgcatgg	tttatgatct	ctataaaacc	960
ctcacacca	tctcagcggc	atatgcaaga	gcaagagggg	ctgataggat	gtcttcattt	1020
ggtgatattg	ttgcattgtc	cgatgtttgt	gatgtaccaa	ctgcaaaaat	tatttcaga	1080
gaagtatctg	atggtataat	tgccccagga	tatgaagaag	aagccttgac	aatactttcc	1140
aaaaagaaaa	atggaaacta	ttgtgtcctt	cagatggacc	aatcttacia	accagatgaa	1200
aatgaagttc	gaactctctt	tggctctcat	ttaagccaga	agagaaataa	tgggtgtctc	1260
gacaagtcat	tatttagcaa	tggtgttacc	aaaaataaag	atttgccaga	gtctgccctc	1320
cgagacctca	tcgtagccac	cattgtgtgc	aagtacactc	agtctaactc	tgtgtgtctc	1380
gccaagaacg	ggcagggtat	cggcattgga	gcagagacgc	agtctcgtat	acactgcact	1440
cgcttgcag	gagataaggc	aaactattgg	tggcttagac	accatccaca	agtgtcttcg	1500
atgaagttta	aaacaggagt	gaagagagca	gaaatctcca	atgccatcga	tcaatatgtg	1560
actggaacca	ttggcgagga	tgaagatttg	ataaagtggg	aggcactgtt	tgaggaagtc	1620
cctgagttac	tactgagggc	agagaagaag	gaatgggttg	agaaactgac	tgaagtttct	1680
atcagctctg	atgccttctt	ccctttccga	gataacgtag	acagagctaa	aaggagtggg	1740
gtggcgtaca	ttgcggctcc	ctccggttct	gctgctgaca	aagttgtgat	tgaggcctgc	1800
gacgaactgg	gaatcatcct	cgctcatacg	aaccttcggc	tcttccacca	ctgattttac	1860
cacacactgt	tttttggtct	gcttatgtgt	aggtgaacag	tcacgcctga	aactttgagg	1920
ataacttttt	aaaaaaataa	aacagtatct	cttaatcact	ggaaaaaa		1968

&lt;210&gt; 705

&lt;211&gt; 800

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 705

cctgcaggtc	gacactaagt	gggatccaaa	gaattcggca	cgagaaaaga	agaagactaa	60
gaataaaaaag	aataaagact	caaaaagaaga	ccaagtccca	tatgtggtag	aaaaggaaga	120
gcagttgagg	aaagaacaag	caaattccaca	ctcagtcagt	agacttataa	aagatgatgc	180
aagtgatgtt	caagaggatt	ctgcaatgga	agacaagttc	tatagcctgg	atgaattgca	240
tattctggac	atgatagagc	agggctcagc	tggcaaagta	actacagact	atggagaaac	300
tgaaaaggaa	aggcttgctc	gtcaaaggca	gctttataaa	ttgcactatc	agtgtgaaga	360
tttcaaaaaga	cagttgagaa	cagtgtactt	tcggtggcaa	gaaaaccaa	tcagatttaa	420
aaagaaagac	aaaattatcg	catctcttaa	tcaacaagtt	gcttttgga	tcaataaggt	480
ttccaaatta	cagcgtcaaa	tccatgctaa	agataatgaa	atcaagaacc	ttaaagagca	540
actttctatg	aaaagatctc	agtgggaaat	ggaaaaacat	aatctgggaa	agcacaatga	600
aaacatacgt	aagcaaaactg	aacgcagaaa	ctagcagagc	tttaacagcc	gaagggtgan	660
ttcttacagt	gtcgtanggg	antttgggtt	tgctcatcc	tagagcaaga	ctgaaaagga	720
atgtcccaat	cagcntgcc	agggtgaccc	acatggganc	caagcaacct	agaaanact	780
tcaattttaa	gggctgcggg					800

&lt;210&gt; 706

&lt;211&gt; 487

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 706

caaaggaagc	tcagtttttc	ttttattatg	agctgcttgt	ntgagtgggtg	taaaattatg	60
tgctcttcaa	tatagtgtca	aagaagccag	ctaattttat	caaagcagca	gccaagaag	120
tcaggacaaa	tcttcaggac	ttgtgaaatg	aactgaaaga	gcttgaagca	gatggaattt	180
taatagttac	actatatatg	ctcttagtag	gtttttttct	tgtagtgga	acataactgt	240
tagcatattt	cttaggatgt	tttttcttgt	cttttttaaa	tcttatttca	ctcatccttt	300



actctcccct	caagtattct	acactttaat	ttcttgaaat	aaatttaagg	aaaagggaaa	360
tagtaaagaa	gtaggaatgg	gtgcagcaca	ccagcatggc	acatgaatac	acatgtaact	420
aacctgcaca	ttgtgcacat	gtaccctaaa	acttaaagta	taataataat	aaaaaaaaaa	480
aaaaaaaa						487

&lt;210&gt; 707

&lt;211&gt; 3599

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 707

aaggaggagc	gggccgtgga	ggcttcgccc	cctagggtact	gctataacca	gaatttggtg	60
taaaaaggat	ttacttgttg	gggccctctt	gataaaaaga	gatgtggggg	gattctcgac	120
ctgctaacag	aactggacct	ttctgtggga	gccaagaaga	aaggtttgct	cccgggtgga	180
acagggatta	tctctctcct	ccccttaaga	gtcatgtctc	agagagacac	tctggcaact	240
ttctctggcag	agattcactt	ccctttgatt	tccaggggca	ttcggggcct	ccttttgcaa	300
atgtagagga	gcattctttc	agctatggag	ctagagacgg	accgcatggt	gactatcgag	360
gaggggaggg	acctggacat	gatttcaggg	ggggagattt	ttcgtcttct	gatttcagga	420
gcagagattc	atcacagtgt	gacttcaggg	gtagggacat	acattctggg	gattttcggg	480
atagagaagg	accacctatg	gactataggg	gtggagatgg	tacttctatg	gattatagag	540
gtaggggaggc	acctcatatg	aactacagag	acagggatgc	tcacgctgtt	gacttcagag	600
gtagggatgc	tctccatctt	gacttcaggg	gccggggcac	ttatgattta	gattttagag	660
gccgggatgg	atcccagcga	gattttaggg	gaagggattt	atcagatttg	gattttaggg	720
ccagagaaca	gtcccgttct	gattttagga	atagagatgt	atctgatttg	gactttagag	780
acaaagacgg	aacacaagta	gactttagag	gccgagggtc	agggtactact	gatctagact	840
ttagggacag	ggatacgcca	catttcagatt	tcagaggtag	acaccgatct	aggactgatc	900
aggatttttag	gggcagagag	atgggatctt	gtatggaatt	taaagatagg	gagatgcccc	960
ctgtggatcc	aaatattttg	gattacattc	agccctctac	acaagataga	gaacattctg	1020
gtatgaatgt	gaacaggaga	gaagaatcca	cacacgacca	tacgatagaa	aggcctgctt	1080
ttggcattca	gaaggagaaa	tttgagcatt	cagaaacaag	agaaggagaa	acacaagggtg	1140
tagcctttga	acatgagtct	ccagcagact	ttcagaacag	ccaaagtcca	gttcaagacc	1200
aagataagtc	acagctttct	ggacgtgaag	agcagagttc	agatgctggt	ctgtttaaaag	1260
aagaaggcgg	tctggacttt	cttgggcggc	aagacaccga	ttacagaagc	atggagtacc	1320
gtgatgtgga	tcataggctg	ccaggaagcc	agatgttttg	ctatggccag	agcaagtctt	1380
ttccagaggg	caaaactgcc	cgagatgccc	aacgggacct	tcaggatcaa	gattatagga	1440
ccggcccaag	tgaggagaaa	cccagcaggc	ttattcgatt	aagtggggta	cctgaagatg	1500
ccacaaaaga	agagattctt	aatgcttttc	ggactcctga	tggcatgcct	gtaaaagaact	1560
tgcagttgaa	ggagtataac	acaggttacg	actatggcta	tgtctgcgtg	gagttttcac	1620
tcttggaaaga	tgccatcgga	tgcatggagg	ccaaccaggg	aactctaata	atccaggaca	1680
aagaagttac	cctggagtat	gtatcaagcc	tggatttttg	gtactgcaaa	cgatgtaagg	1740
caaacatttg	tgggcaccga	tcttctctgt	cattctgcaa	gaacccaaga	gaagtgcacg	1800
aggccaagca	agaattaata	acctaccctc	agcctcagaa	aacatccata	ccagcaccat	1860
tggaaaaaca	gccaaccag	cccctaagac	cagctgataa	ggaacctgaa	cccaggaaga	1920
gggaagaagg	ccaagagtca	cgcttaggac	atcaaaagag	agaagcagaa	aggtatctgc	1980
ctccttctcg	aaggggaagg	ccaactttcc	gaagagaccg	agagagggag	tcatggtctg	2040
gagagacacg	ccaggatgga	gagagcaaaa	ctatcatgct	aaagcgtatc	tatcgttcca	2100
caccacctga	ggtgatagtg	gaagtgtctg	agccctatgt	ccgccttact	actgccaacg	2160
tccgtatcat	caagaacaga	acaggcccta	tggggcatac	ctatggcttt	attgacctcg	2220
actcccatgt	ggaagctctt	cgtgtggtga	agatcttaca	gaaccttgat	ccgccattta	2280
gcatttgatg	gaagatggta	gctgtaaacc	tggccactgg	aaaacgaaga	aatgattctg	2340
gggaccattc	tgaccacatg	cattactatc	agggtaaaaa	atatttccga	gataggaggg	2400
gaggtggcag	aaattcagac	tggctcttcag	atacaaatcg	acaaggacaa	cagtcatcat	2460
ctgactgcta	catatatgat	tctgctagtg	gctactatta	tgacctcttg	gcaggaaactt	2520
attatgacct	caatacccag	caagaagtct	atgtgcccc	ggatcctgga	ttacctgagg	2580
aagaagagat	caaggaaaaa	aaaccaccca	gtcaaggaaa	gtcaagtagc	aagaaggaaa	2640

```

tgtctaaaaag agatggcaag gagaaaaaag acagaggagtg gacgagggttt caggaaaatg      2700
ccagtgaagg gaaggccct gcagaagacg tctttaagaa gccctgcct cctactgtga      2760
agaaggaaga gagtccccct ccacctaaag tggtaaaccct actgatcggc ctcttggtg      2820
aatatggagg agacagtac tatgaggagg aagaagagga ggaacagacc cctccccac      2880
agccccgcac agcacagccc cagaagcgag aggagcaaac caagaaggag aatgaagaag      2940
acaaactcac tgactggaat aaactggctt gtctgctttg cagaaggcag tttcccaata      3000
aagaagttct gatcaaacac cagcagctgt cagacctgca caagcaaac ctggaaatcc      3060
accggaagat aaaacagtct gagcaggagc tagcctatct ggaaaggaga gaacgagagg      3120
gaaagtttaa aggaagagga aatgatcgca gggaaaagct ccagtctttt gactctccag      3180
aaaggaaacg gattaagtac tccagggaaa ctgacagtga tcgtaaactt gttgataaag      3240
aagatatcga cactagcagc aaaggaggct gtgtccaaca ggctactggc tggaggaag      3300
ggacaggcct gggatatggc catcctggat tggcttcac agaggaggct gaaggccgga      3360
tgaggggccc cagtgttgga gcctcaggaa gaaccagcaa aagacagtcc aacgagactt      3420
atcgagatgc tgttcgaaga gtcattgttg ctcatataa agaactcgat taagaaagga      3480
gacaagttcc atgggataca acctccctct tgttttgttt gtctctcctt tctttttgtt      3540
actgttcttg ctgctagaac ttttttaaata aaactttttt tcaatgtgat taaaaaaaa      3599

```

&lt;210&gt; 708

&lt;211&gt; 1123

&lt;212&gt; PRT

&lt;213&gt; Homo Sapiens

&lt;400&gt; 708

```

Met Trp Gly Asp Ser Arg Pro Ala Asn Arg Thr Gly Pro Phe Arg Gly
 1              5              10              15
Ser Gln Glu Glu Arg Phe Ala Pro Gly Trp Asn Arg Asp Tyr Pro Pro
      20              25              30
Pro Pro Leu Lys Ser His Ala Gln Glu Arg His Ser Gly Asn Phe Pro
      35              40              45
Gly Arg Asp Ser Leu Pro Phe Asp Phe Gln Gly His Ser Gly Pro Pro
      50              55              60
Phe Ala Asn Val Glu Glu His Ser Phe Ser Tyr Gly Ala Arg Asp Gly
      65              70              75              80
Pro His Gly Asp Tyr Arg Gly Gly Glu Gly Pro Gly His Asp Phe Arg
      85              90              95
Gly Gly Asp Phe Ser Ser Ser Asp Phe Gln Ser Arg Asp Ser Ser Gln
      100              105              110
Leu Asp Phe Arg Gly Arg Asp Ile His Ser Gly Asp Phe Arg Asp Arg
      115              120              125
Glu Gly Pro Pro Met Asp Tyr Arg Gly Gly Asp Gly Thr Ser Met Asp
      130              135              140
Tyr Arg Gly Arg Glu Ala Pro His Met Asn Tyr Arg Asp Arg Asp Ala
      145              150              155              160
His Ala Val Asp Phe Arg Gly Arg Asp Ala Pro Pro Ser Asp Phe Arg
      165              170              175
Gly Arg Gly Thr Tyr Asp Leu Asp Phe Arg Gly Arg Asp Gly Ser His
      180              185              190
Ala Asp Phe Arg Gly Arg Asp Leu Ser Asp Leu Asp Phe Arg Ala Arg
      195              200              205
Glu Gln Ser Arg Ser Asp Phe Arg Asn Arg Asp Val Ser Asp Leu Asp
      210              215              220
Phe Arg Asp Lys Asp Gly Thr Gln Val Asp Phe Arg Gly Arg Gly Ser
      225              230              235              240
Gly Thr Thr Asp Leu Asp Phe Arg Asp Arg Asp Thr Pro His Ser Asp
      245              250              255

```

Phe Arg Gly Arg His Arg Ser Arg Thr Asp Gln Asp Phe Arg Gly Arg  
 260 265 270  
 Glu Met Gly Ser Cys Met Glu Phe Lys Asp Arg Glu Met Pro Pro Val  
 275 280 285  
 Asp Pro Asn Ile Leu Asp Tyr Ile Gln Pro Ser Thr Gln Asp Arg Glu  
 290 295 300  
 His Ser Gly Met Asn Val Asn Arg Arg Glu Glu Ser Thr His Asp His  
 305 310 315 320  
 Thr Ile Glu Arg Pro Ala Phe Gly Ile Gln Lys Gly Glu Phe Glu His  
 325 330 335  
 Ser Glu Thr Arg Glu Gly Glu Thr Gln Gly Val Ala Phe Glu His Glu  
 340 345 350  
 Ser Pro Ala Asp Phe Gln Asn Ser Gln Ser Pro Val Gln Asp Gln Asp  
 355 360 365  
 Lys Ser Gln Leu Ser Gly Arg Glu Glu Gln Ser Ser Asp Ala Gly Leu  
 370 375 380  
 Phe Lys Glu Glu Gly Gly Leu Asp Phe Leu Gly Arg Gln Asp Thr Asp  
 385 390 395 400  
 Tyr Arg Ser Met Glu Tyr Arg Asp Val Asp His Arg Leu Pro Gly Ser  
 405 410 415  
 Gln Met Phe Gly Tyr Gly Gln Ser Lys Ser Phe Pro Glu Gly Lys Thr  
 420 425 430  
 Ala Arg Asp Ala Gln Arg Asp Leu Gln Asp Gln Asp Tyr Arg Thr Gly  
 435 440 445  
 Pro Ser Glu Glu Lys Pro Ser Arg Leu Ile Arg Leu Ser Gly Val Pro  
 450 455 460  
 Glu Asp Ala Thr Lys Glu Glu Ile Leu Asn Ala Phe Arg Thr Pro Asp  
 465 470 475 480  
 Gly Met Pro Val Lys Asn Leu Gln Leu Lys Glu Tyr Asn Thr Gly Tyr  
 485 490 495  
 Asp Tyr Gly Tyr Val Cys Val Glu Phe Ser Leu Leu Glu Asp Ala Ile  
 500 505 510  
 Gly Cys Met Glu Ala Asn Gln Gly Thr Leu Met Ile Gln Asp Lys Glu  
 515 520 525  
 Val Thr Leu Glu Tyr Val Ser Ser Leu Asp Phe Trp Tyr Cys Lys Arg  
 530 535 540  
 Cys Lys Ala Asn Ile Gly Gly His Arg Ser Ser Cys Ser Phe Cys Lys  
 545 550 555 560  
 Asn Pro Arg Glu Val Thr Glu Ala Lys Gln Glu Leu Ile Thr Tyr Pro  
 565 570 575  
 Gln Pro Gln Lys Thr Ser Ile Pro Ala Pro Leu Glu Lys Gln Pro Asn  
 580 585 590  
 Gln Pro Leu Arg Pro Ala Asp Lys Glu Pro Glu Pro Arg Lys Arg Glu  
 595 600 605  
 Glu Gly Gln Glu Ser Arg Leu Gly His Gln Lys Arg Glu Ala Glu Arg  
 610 615 620  
 Tyr Leu Pro Pro Ser Arg Arg Glu Gly Pro Thr Phe Arg Arg Asp Arg  
 625 630 635 640  
 Glu Arg Glu Ser Trp Ser Gly Glu Thr Arg Gln Asp Gly Glu Ser Lys  
 645 650 655  
 Thr Ile Met Leu Lys Arg Ile Tyr Arg Ser Thr Pro Pro Glu Val Ile  
 660 665 670  
 Val Glu Val Leu Glu Pro Tyr Val Arg Leu Thr Thr Ala Asn Val Arg  
 675 680 685  
 Ile Ile Lys Asn Arg Thr Gly Pro Met Gly His Thr Tyr Gly Phe Ile

690	695	700
Asp Leu Asp Ser His Val Glu Ala Leu Arg Val Val Lys Ile Leu Gln		
705	710	715
Asn Leu Asp Pro Pro Phe Ser Ile Asp Gly Lys Met Val Ala Val Asn		
	725	730
Leu Ala Thr Gly Lys Arg Arg Asn Asp Ser Gly Asp His Ser Asp His		
	740	745
Met His Tyr Tyr Gln Gly Lys Lys Tyr Phe Arg Asp Arg Arg Gly Gly		
	755	760
Gly Arg Asn Ser Asp Trp Ser Ser Asp Thr Asn Arg Gln Gly Gln Gln		
	770	775
Ser Ser Ser Asp Cys Tyr Ile Tyr Asp Ser Ala Ser Gly Tyr Tyr Tyr		
785	790	795
Asp Pro Leu Ala Gly Thr Tyr Tyr Asp Pro Asn Thr Gln Gln Glu Val		
	805	810
Tyr Val Pro Gln Asp Pro Gly Leu Pro Glu Glu Glu Glu Ile Lys Glu		
	820	825
Lys Lys Pro Thr Ser Gln Gly Lys Ser Ser Ser Lys Lys Glu Met Ser		
	835	840
Lys Arg Asp Gly Lys Glu Lys Lys Asp Arg Gly Val Thr Arg Phe Gln		
	850	855
Glu Asn Ala Ser Glu Gly Lys Ala Pro Ala Glu Asp Val Phe Lys Lys		
865	870	875
Pro Leu Pro Pro Thr Val Lys Lys Glu Glu Ser Pro Pro Pro Pro Lys		
	885	890
Val Val Asn Pro Leu Ile Gly Leu Leu Gly Glu Tyr Gly Gly Asp Ser		
	900	905
Asp Tyr Glu Glu Glu Glu Glu Glu Glu Gln Thr Pro Pro Pro Gln Pro		
	915	920
Arg Thr Ala Gln Pro Gln Lys Arg Glu Glu Gln Thr Lys Lys Glu Asn		
	930	935
Glu Glu Asp Lys Leu Thr Asp Trp Asn Lys Leu Ala Cys Leu Leu Cys		
945	950	955
Arg Arg Gln Phe Pro Asn Lys Glu Val Leu Ile Lys His Gln Gln Leu		
	965	970
Ser Asp Leu His Lys Gln Asn Leu Glu Ile His Arg Lys Ile Lys Gln		
	980	985
Ser Glu Gln Glu Leu Ala Tyr Leu Glu Arg Arg Glu Arg Glu Gly Lys		
	995	1000
Phe Lys Gly Arg Gly Asn Asp Arg Arg Glu Lys Leu Gln Ser Phe Asp		
	1010	1015
Ser Pro Glu Arg Lys Arg Ile Lys Tyr Ser Arg Glu Thr Asp Ser Asp		
1025	1030	1035
Arg Lys Leu Val Asp Lys Glu Asp Ile Asp Thr Ser Ser Lys Gly Gly		
	1045	1050
Cys Val Gln Gln Ala Thr Gly Trp Arg Lys Gly Thr Gly Leu Gly Tyr		
	1060	1065
Gly His Pro Gly Leu Ala Ser Ser Glu Glu Ala Glu Gly Arg Met Arg		
	1075	1080
Gly Pro Ser Val Gly Ala Ser Gly Arg Thr Ser Lys Arg Gln Ser Asn		
	1090	1095
Glu Thr Tyr Arg Asp Ala Val Arg Arg Val Met Phe Ala Arg Tyr Lys		
1105	1110	1115
Glu Leu Asp		

&lt;210&gt; 709

&lt;211&gt; 3807

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 709

```

aaggaggagc gggccgtgga ggcttcgccc cctaggtact gctataacca gaatttggtg      60
taaaaaggat ttacttggtg gggccctctt gataaaaaga gatgtggggg gattctcgac      120
ctgctaacag aactggacct ttctgagatg gcgtttcgcc gtgttgggcc ggctggtctc      180
ggactcctga cctcaagtga tccacctacc tcggcctccc aaagtgtctg gactataggt      240
gtgagccacc gcacctgcca ttgggattgg caatctgcaa gattttatta cttaaatgca      300
acagatgttc tcattcattg ttctgaagct tggagttcca atgaaaaatt tagtgggagc      360
caagaagaaa ggtttgctcc cgggtggaac agggattatc ctcctcctcc ccttaagagt      420
catgctcaag agagacactc tggcaacttt cctggcagag attcacttcc ctttgatttc      480
caggggcatt cggggcctcc ttttgcaaat gtagaggagc attctttcag ctatggagct      540
agagacggac cgcattggtg ctatcgagga ggggagggac ctggacatga tttcaggggg      600
ggagattttt cgtcttctga tttccagagc agagattcat cacagtggga cttcaggggt      660
agggacatac attctgggga ttttcgggat agagaaggac cacctatgga ctataggggt      720
ggagatggta cttctatgga ttatagaggt agggaggcac ctcatatgaa ctacagagac      780
agggatgctc acgctgttga cttcagaggt agggatgctc ctccatctga cttcaggggc      840
cggggcactt atgatttaga ttttagaggc cgggatggat cccatgcaga ttttagggga      900
agggatttat cagatttgga ttttagggcc agagaacagt cccgttctga ttttaggaat      960
agagatgtat ctgatttgga ctttagagac aaagacggaa cacaagtaga ctttagaggc     1020
cgagggttcag gtactactga tctagacttt agggacaggg atacgccaca ttcagatttc     1080
agaggtagac accgatctag gactgatcag gatttttagg gcagagagat gggatcttgt     1140
atggaattta aagataggga gatgccccct gtggatccaa atattttgga ttacattcag     1200
ccctctacac aagatagaga acattctggt atgaatgtga acaggagaga agaatccaca     1260
cacgaccata cgatagaaag gcctgctttt ggcattcaga agggagaatt tgagcattca     1320
gaaacaagag aaggagaaac acaaggtgta gcctttgaac atgagtctcc agcagacttt     1380
cagaacagcc aaagtccagt tcaagaccaa gataagtcac agctttctgg acgtgaagag     1440
cagagttcag atgctggtct gtttaaagaa gaaggcggtc tggactttct tgggcggcaa     1500
gacaccgatt acagaagcat ggagtaccgt gatgtggatc ataggctgcc aggaagccag     1560
atgttttggt atggccagag caagtctttt ccagagggca aaactgcccg agatgcccac     1620
cgggaccttc aggatcaaga ttataggacc ggcccaagtg aggagaaacc cagcaggctt     1680
attcgattaa gtggggtacc tgaagatgcc aaaaagaag agattcttaa tgcttttcgg     1740
actcctgatg gcatgcctgt aaagaacttg cagttgaagg agtataacac aggttacgac     1800
tatggctatg tctgcgtgga gttttcactc ttggaagatg ccatcggatg catggaggcc     1860
aaccagggaa ctctaattgat ccaggacaaa gaagttaccc tggagtatgt atcaagcctg     1920
gatttttggt actgcaaacg atgtaaggca aacattgggt ggcaccgatc ttctgtttca     1980
ttctgcaaga acccaagaga agtgacagag gccaaagcaag aattaataac ctaccctcag     2040
cctcagaaaa catccatacc agcaccattg gaaaaacagc ccaaccagcc cctaagacca     2100
gctgataagg aacctgaacc caggaagagg gaagaaggcc aagagtcacg cttaggacat     2160
caaaagagag aagcagaaag gtatctgcct cttctctgaa ggggaaggcc aactttccga     2220
agagaccgag agagggagtc atggtctgga gagacacgcc aggatggaga gagcaaaact     2280
atcatgctaa agcgtatcta tcgttccaca ccacctgagg tgatagtgga agtgctggag     2340
ccctatgtcc gccttactac tgccaacgtc cgtatcatca agaacagAAC aggccctatg     2400
gggcatacct atggctttat tgacctcgac tcccatgtgg aagctcttcg tgtggtgaag     2460
atcttacaga accttgatcc gccatttagc attgatggga agatggtagc tgtaaacctg     2520
gccactggaa aacgaagaaa tgattctggg gaccattctg accacatgca ttactatcag     2580
ggtaaaaaat attccgaga taggagggga ggtggcagaa attcagactg gtcttcagat     2640
acaaatcgac aaggacaaca gtcatcatct gactgctaca tatatgatc tgctagtggc     2700
tactattatg accccttggc aggaacttat tatgacccca ataccagca agaagtctat     2760
gtgccccagg atcctggatt acctgaggaa gaagagatca aggaaaaaaa acccaccagt     2820
caaggaaagt caagtagcaa gaaggaaatg tctaaaagag atggcaagga gaaaaaagac     2880
agaggagtga cgaggtttca ggaaaatgcc agtgaaggga agggccctgc agaagacgtc     2940

```

```

tttaagaagc cctgcctcc tactgtgaag aaggaagaga gtccccctcc acctaaagtg 3000
gtaaaccacac tgatcggcct cttgggtgaa tatggaggag acagtgacta tgaggaggaa 3060
gaagaggagg aacagacccc tccccacag cccgcacag cacagccca gaagcgagag 3120
gagcaaacca agaaggagaa tgaagaagac aaactcactg actggaataa actggcttgt 3180
ctgctttgca gaaggcagtt tccaataaa gaagttctga tcaaacacca gcagctgtca 3240
gacctgcaca agcaaacct ggaaatccac cggaagataa aacagtctga gcaggagcta 3300
gcctatctgg aaaggagaga acgagaggga aagtttaaag gaagaggaaa tgatcgagg 3360
gaaaagctcc agtcttttga ctctccagaa aggaaacgga ttaagtactc cagggaact 3420
gacagtgatc gtaaacttgt tgataaagaa gatatcgaca ctacgagcaa aggaggctgt 3480
gtccaacagg ctactggctg gaggaaggag acaggcctgg gatatggcca tcctggattg 3540
gcttcatcag aggaggctga aggcggatg aggggcccc gtgttgagc ctcaggaaga 3600
accagcaaaa gacagtccaa cgagacttat cgagatgctg ttcgaagagt catgtttgct 3660
cgatataaag aactcgatta agaaaggaga caagttccat gggatacaac ctccctcttg 3720
ttttgtttgt ctctcctttt cttttgttac tgttcttgct gctagaactt ttttaataa 3780
acttttttct aatgtgatta aaaaaaa 3807

```

&lt;210&gt; 710

&lt;211&gt; 1177

&lt;212&gt; PRT

&lt;213&gt; Homo Sapiens

&lt;400&gt; 710

```

Met Ala Phe Arg Arg Val Gly Arg Ala Gly Leu Gly Leu Leu Thr Ser
 1          5          10          15
Ser Asp Pro Pro Thr Ser Ala Ser Gln Ser Ala Gly Thr Ile Gly Val
          20          25          30
Ser His Arg Thr Cys His Leu Asp Trp Gln Ser Ala Arg Phe Tyr Tyr
          35          40          45
Leu Asn Ala Thr Asp Val Leu Ile His Cys Ser Glu Ala Trp Ser Ser
          50          55          60
Asn Glu Lys Phe Ser Gly Ser Gln Glu Glu Arg Phe Ala Pro Gly Trp
          65          70          75          80
Asn Arg Asp Tyr Pro Pro Pro Pro Leu Lys Ser His Ala Gln Glu Arg
          85          90          95
His Ser Gly Asn Phe Pro Gly Arg Asp Ser Leu Pro Phe Asp Phe Gln
          100          105          110
Gly His Ser Gly Pro Pro Phe Ala Asn Val Glu Glu His Ser Phe Ser
          115          120          125
Tyr Gly Ala Arg Asp Gly Pro His Gly Asp Tyr Arg Gly Gly Glu Gly
          130          135          140
Pro Gly His Asp Phe Arg Gly Gly Asp Phe Ser Ser Ser Asp Phe Gln
          145          150          155          160
Ser Arg Asp Ser Ser Gln Leu Asp Phe Arg Gly Arg Asp Ile His Ser
          165          170          175
Gly Asp Phe Arg Asp Arg Glu Gly Pro Pro Met Asp Tyr Arg Gly Gly
          180          185          190
Asp Gly Thr Ser Met Asp Tyr Arg Gly Arg Glu Ala Pro His Met Asn
          195          200          205
Tyr Arg Asp Arg Asp Ala His Ala Val Asp Phe Arg Gly Arg Asp Ala
          210          215          220
Pro Pro Ser Asp Phe Arg Gly Arg Gly Thr Tyr Asp Leu Asp Phe Arg
          225          230          235          240
Gly Arg Asp Gly Ser His Ala Asp Phe Arg Gly Arg Asp Leu Ser Asp
          245          250          255
Leu Asp Phe Arg Ala Arg Glu Gln Ser Arg Ser Asp Phe Arg Asn Arg

```

	260		265		270
Asp Val Ser Asp Leu Asp Phe Arg Asp Lys Asp Gly Thr Gln Val Asp					
	275		280		285
Phe Arg Gly Arg Gly Ser Gly Thr Thr Asp Leu Asp Phe Arg Asp Arg					
	290		295		300
Asp Thr Pro His Ser Asp Phe Arg Gly Arg His Arg Ser Arg Thr Asp					
305		310		315	320
Gln Asp Phe Arg Gly Arg Glu Met Gly Ser Cys Met Glu Phe Lys Asp					
	325		330		335
Arg Glu Met Pro Pro Val Asp Pro Asn Ile Leu Asp Tyr Ile Gln Pro					
	340		345		350
Ser Thr Gln Asp Arg Glu His Ser Gly Met Asn Val Asn Arg Arg Glu					
	355		360		365
Glu Ser Thr His Asp His Thr Ile Glu Arg Pro Ala Phe Gly Ile Gln					
	370		375		380
Lys Gly Glu Phe Glu His Ser Glu Thr Arg Glu Gly Glu Thr Gln Gly					
385		390		395	400
Val Ala Phe Glu His Glu Ser Pro Ala Asp Phe Gln Asn Ser Gln Ser					
	405		410		415
Pro Val Gln Asp Gln Asp Lys Ser Gln Leu Ser Gly Arg Glu Glu Gln					
	420		425		430
Ser Ser Asp Ala Gly Leu Phe Lys Glu Glu Gly Gly Leu Asp Phe Leu					
	435		440		445
Gly Arg Gln Asp Thr Asp Tyr Arg Ser Met Glu Tyr Arg Asp Val Asp					
	450		455		460
His Arg Leu Pro Gly Ser Gln Met Phe Gly Tyr Gly Gln Ser Lys Ser					
465		470		475	480
Phe Pro Glu Gly Lys Thr Ala Arg Asp Ala Gln Arg Asp Leu Gln Asp					
	485		490		495
Gln Asp Tyr Arg Thr Gly Pro Ser Glu Glu Lys Pro Ser Arg Leu Ile					
	500		505		510
Arg Leu Ser Gly Val Pro Glu Asp Ala Thr Lys Glu Glu Ile Leu Asn					
	515		520		525
Ala Phe Arg Thr Pro Asp Gly Met Pro Val Lys Asn Leu Gln Leu Lys					
	530		535		540
Glu Tyr Asn Thr Gly Tyr Asp Tyr Gly Tyr Val Cys Val Glu Phe Ser					
545		550		555	560
Leu Leu Glu Asp Ala Ile Gly Cys Met Glu Ala Asn Gln Gly Thr Leu					
	565		570		575
Met Ile Gln Asp Lys Glu Val Thr Leu Glu Tyr Val Ser Ser Leu Asp					
	580		585		590
Phe Trp Tyr Cys Lys Arg Cys Lys Ala Asn Ile Gly Gly His Arg Ser					
	595		600		605
Ser Cys Ser Phe Cys Lys Asn Pro Arg Glu Val Thr Glu Ala Lys Gln					
	610		615		620
Glu Leu Ile Thr Tyr Pro Gln Pro Gln Lys Thr Ser Ile Pro Ala Pro					
625		630		635	640
Leu Glu Lys Gln Pro Asn Gln Pro Leu Arg Pro Ala Asp Lys Glu Pro					
	645		650		655
Glu Pro Arg Lys Arg Glu Glu Gly Gln Glu Ser Arg Leu Gly His Gln					
	660		665		670
Lys Arg Glu Ala Glu Arg Tyr Leu Pro Pro Ser Arg Arg Glu Gly Pro					
	675		680		685
Thr Phe Arg Arg Asp Arg Glu Arg Glu Ser Trp Ser Gly Glu Thr Arg					
	690		695		700

Gln Asp Gly Glu Ser Lys Thr Ile Met Leu Lys Arg Ile Tyr Arg Ser  
 705 710 715 720  
 Thr Pro Pro Glu Val Ile Val Glu Val Leu Glu Pro Tyr Val Arg Leu  
 725 730 735  
 Thr Thr Ala Asn Val Arg Ile Ile Lys Asn Arg Thr Gly Pro Met Gly  
 740 745 750  
 His Thr Tyr Gly Phe Ile Asp Leu Asp Ser His Val Glu Ala Leu Arg  
 755 760 765  
 Val Val Lys Ile Leu Gln Asn Leu Asp Pro Pro Phe Ser Ile Asp Gly  
 770 775 780  
 Lys Met Val Ala Val Asn Leu Ala Thr Gly Lys Arg Arg Asn Asp Ser  
 785 790 795 800  
 Gly Asp His Ser Asp His Met His Tyr Tyr Gln Gly Lys Lys Tyr Phe  
 805 810 815  
 Arg Asp Arg Arg Gly Gly Gly Arg Asn Ser Asp Trp Ser Ser Asp Thr  
 820 825 830  
 Asn Arg Gln Gly Gln Gln Ser Ser Ser Asp Cys Tyr Ile Tyr Asp Ser  
 835 840 845  
 Ala Ser Gly Tyr Tyr Tyr Asp Pro Leu Ala Gly Thr Tyr Tyr Asp Pro  
 850 855 860  
 Asn Thr Gln Gln Glu Val Tyr Val Pro Gln Asp Pro Gly Leu Pro Glu  
 865 870 875 880  
 Glu Glu Glu Ile Lys Glu Lys Lys Pro Thr Ser Gln Gly Lys Ser Ser  
 885 890 895  
 Ser Lys Lys Glu Met Ser Lys Arg Asp Gly Lys Glu Lys Lys Asp Arg  
 900 905 910  
 Gly Val Thr Arg Phe Gln Glu Asn Ala Ser Glu Gly Lys Ala Pro Ala  
 915 920 925  
 Glu Asp Val Phe Lys Lys Pro Leu Pro Pro Thr Val Lys Lys Glu Glu  
 930 935 940  
 Ser Pro Pro Pro Pro Lys Val Val Asn Pro Leu Ile Gly Leu Leu Gly  
 945 950 955 960  
 Glu Tyr Gly Gly Asp Ser Asp Tyr Glu Glu Glu Glu Glu Glu Glu  
 965 970 975  
 Thr Pro Pro Pro Gln Pro Arg Thr Ala Gln Pro Gln Lys Arg Glu Glu  
 980 985 990  
 Gln Thr Lys Lys Glu Asn Glu Glu Asp Lys Leu Thr Asp Trp Asn Lys  
 995 1000 1005  
 Leu Ala Cys Leu Leu Cys Arg Arg Gln Phe Pro Asn Lys Glu Val Leu  
 1010 1015 1020  
 Ile Lys His Gln Gln Leu Ser Asp Leu His Lys Gln Asn Leu Glu Ile  
 1025 1030 1035 104  
 His Arg Lys Ile Lys Gln Ser Glu Gln Glu Leu Ala Tyr Leu Glu Arg  
 1045 1050 1055  
 Arg Glu Arg Glu Gly Lys Phe Lys Gly Arg Gly Asn Asp Arg Arg Glu  
 1060 1065 1070  
 Lys Leu Gln Ser Phe Asp Ser Pro Glu Arg Lys Arg Ile Lys Tyr Ser  
 1075 1080 1085  
 Arg Glu Thr Asp Ser Asp Arg Lys Leu Val Asp Lys Glu Asp Ile Asp  
 1090 1095 1100  
 Thr Ser Ser Lys Gly Gly Cys Val Gln Gln Ala Thr Gly Trp Arg Lys  
 1105 1110 1115 112  
 Gly Thr Gly Leu Gly Tyr Gly His Pro Gly Leu Ala Ser Ser Glu Glu  
 1125 1130 1135  
 Ala Glu Gly Arg Met Arg Gly Pro Ser Val Gly Ala Ser Gly Arg Thr



1140 1145 1150  
 Ser Lys Arg Gln Ser Asn Glu Thr Tyr Arg Asp Ala Val Arg Arg Val  
 1155 1160 1165  
 Met Phe Ala Arg Tyr Lys Glu Leu Asp  
 1170 1175

<210> 711  
 <211> 4060  
 <212> DNA  
 <213> Homo Sapiens

<400> 711

ctgaaggcag	cggcgcggcg	cctttgtggt	agcagtggcc	ccgcgcggag	gaagtccgg	60
tgtccgcggc	gctaggtcgg	tggcggaggc	tgaggagaag	gaggagcggg	ccgtggaggc	120
ttcgccgcct	aggtactgct	ataaccagaa	tttggtataa	aaaggattta	cttgttgggg	180
ccctcttgat	aaaaagagat	gtggggggat	tctcgacctg	ctaacagaac	tggacctttt	240
cggactgggt	gaaagctttt	tctgcagcag	tcatgttaaa	aaccttggtg	tgactttcct	300
cgtgtttcga	aactaacaga	actggacctt	ttcggactgg	gtgaaagcct	tttctgcagc	360
agtcagtgtg	aaaaccttgt	gttgactttc	ttcgtgttct	gaaatgggag	cataaaagtt	420
tactccgcca	nttcgtctta	aaatagcaaa	actttgctgt	tttctgcaga	tctaggacct	480
tgttacagaa	ctctgccaaa	aaaaaaatgt	ttacagaaga	atgtgctgtg	attagagaag	540
aatatgctgg	tgtgtagatt	tcaaactctc	tggacaatat	gaataacact	gtctttgttt	600
ctacagtggg	agccaagaag	aaaggtttgc	tccgggtggg	aacagggatt	atcctcctcc	660
tccccttaag	agtcagtctc	aagagagaca	ctctggcaac	tttctggcca	gagattcact	720
tccctttgat	ttccaggggc	attcggggcc	tccttttgca	aatgtagagg	agcattcttt	780
cagctatgga	gctagagacg	gaccgcatgg	tgactatcga	ggaggggagg	gacctggaca	840
tgatttcagg	gggggagatt	tttcgtcttc	tgatttccag	agcagagatt	catcacagtt	900
ggacttcagg	ggtagggaca	tacattctgg	ggattttcgg	gatagagaag	gaccacctat	960
ggactatagg	ggtggagatg	gtacttctat	ggattataga	ggtagggagg	cacctcatat	1020
gaactacaga	gacagggatg	ctcacgctgt	tgacttcaga	ggtagggatg	ctcctccatc	1080
tgacttcagg	ggccggggca	cttatgattt	agattttaga	ggccgggatg	gatcccatgc	1140
agattttagg	ggaagggatt	tatcagattt	ggattttagg	gccagagaac	agtcccgttc	1200
tgattttagg	aatagagatg	tatctgattt	ggactttaga	gacaaagacg	gaacacaagt	1260
agactttaga	ggccgaggtt	caggtactac	tgatctagac	tttagggaca	gggatacgcc	1320
acattcagat	ttcagaggta	gacaccgatc	taggactgat	caggatttta	ggggcagaga	1380
gatgggatct	tgatatggaat	ttaaagatag	ggagatgccc	cctgtggatc	caaataatttt	1440
ggattacatt	cagccctcta	cacaagatag	agaacattct	ggtatgaatg	tgaacaggag	1500
agaagaatcc	acacacgacc	atacgataga	aaggcctgct	tttggcattc	agaagggaga	1560
atttgagcat	tcagaacaaa	gagaaggaga	aacacaaggt	gtagcctttg	aacatgagtc	1620
tccagcagac	tttcagaaca	gccaaagtcc	agttcaagac	caagataagt	cacagctttc	1680
tggacgtgaa	gagcagagtt	cagatgctgg	tctgtttaaa	gaagaaggcg	gtctggactt	1740
tcttgggcgg	caagacaccg	attacagaag	catggagtac	cgtgatgtgg	atcataggct	1800
gccaggaagc	cagatgtttg	gctatggcca	gagcaagtct	tttccagagg	gcaaaactgc	1860
ccgagatgcc	caacgggacc	ttcaggatca	agattatagg	accggcccaa	gtgaggagaa	1920
accagcagg	cttattcgat	taagtggggg	acctgaagat	gccacaaaag	aagagattct	1980
taatgctttt	cggactcctg	atggcatgcc	tgtaaagaac	ttgcagtga	aggagtataa	2040
cacaggttac	gactatggct	atgtctgctg	ggagttttca	ctcttggaag	atgccatcgg	2100
atgcatggag	gccaaaccagg	gaactctaatt	gatccaggac	aaagaagtta	ccctggagta	2160
tgtatcaagc	ctggattttt	ggtactgcaa	acgatgtaag	gcaaacattg	gtgggcaccg	2220
atcttctctg	tcatcttgca	agaacccaag	agaagtgcga	gaggccaagc	aagaattaat	2280
aacctaccct	cagcctcaga	aaacatccat	accagcacca	ttggaaaaac	agcccaacca	2340
gcccctaaga	ccagctgata	aggaacctga	accaggaag	agggaaagaag	gccaagagtc	2400
acgcttagga	catcaaaaga	gagaagcaga	aaggtatctg	cctccttctc	gaagggaagg	2460
gccaaacttc	cgaagagacc	gagagaggga	gtcatggtct	ggagagacac	gccaggatgg	2520
agagagcaaa	actatcatgc	taaagcgtat	ctatcgttcc	acaccacctg	aggtgatagt	2580

ggaagtgtctg	gagccctatg	tccgccttac	tactgccaac	gtccgtatca	tcaagaacag	2640
aacaggccct	atggggcata	cctatggctt	tattgacctc	gactcccatg	tggaagctct	2700
tcgtgtggtg	aagatccttac	agaaccttga	tccgccattt	agcattgatg	ggaagatggt	2760
agctgtaaac	ctggccactg	gaaaacgaag	aaatgattct	ggggaccatt	ctgaccacat	2820
gcattactat	cagggtaaaa	aatattttccg	agataggagg	ggaggtggca	gaaattcaga	2880
ctggctcttca	gatacaaatc	gacaaggaca	acagtcatca	tctgactgct	acatatatga	2940
ttctgctagt	ggctactatt	atgacccctt	ggcaggaact	tattatgacc	ccaataccca	3000
gcaagaagtc	tatgtgcccc	aggatccctg	attacctgag	gaagaagaga	tcaaggaaaa	3060
aaaaccacc	agtcaaggaa	agtcaagtag	caagaaggaa	atgtctaaaa	gagatggcaa	3120
ggagaaaaaa	gacagaggag	tgacgaggtt	tcaggaaaaat	gccagtgaag	ggaaggcccc	3180
tgcagaagac	gtctttaaga	agccccctgc	tcctactgtg	aagaaggaag	agagtccccc	3240
tccacctaaa	gtggtaaac	cactgatcgg	cctcttgggt	gaatatggag	gagacagtga	3300
ctatgaggag	gaagaagagg	aggaacagac	ccctccccc	cagccccgca	cagcacagcc	3360
ccagaagcga	gaggagcaaa	ccaagaagga	gaatgaagaa	gacaaactca	ctgactggaa	3420
taaactggct	tgtctgcttt	gcagaaggca	gtttcccaat	aaagaagttc	tgatcaaaca	3480
ccagcagctg	tcagacctgc	acaagcaaaa	cctggaaatc	caccggaaga	taaaacagtc	3540
tgagcaggag	ctagcctatc	tggaaggag	agaacgagag	ggaaagttta	aaggaagagg	3600
aaatgatcgc	agggaaaagc	tcagtccttt	tgactctcca	gaaaggaaac	ggattaaagta	3660
ctccagggaa	actgacagtg	atcgtaaaact	tggtgataaa	gaagatatcg	acactagcag	3720
caaaggaggc	tgtgtccaac	aggctactgg	ctggaggaaa	gggacaggcc	tgggatattg	3780
ccatcctgga	ttggcttcat	cagaggagcc	tgaaggccgg	atgaggggcc	ccagtgttgg	3840
agcctcagga	agaaccagca	aaagacagtc	caacgagact	tatcgagatg	ctgttcgaag	3900
agtcatgttt	gctcgatata	aagaactcga	ttaagaaagg	agacaagttc	catgggatac	3960
aacctccctc	ttgttttgtt	tgtctctcct	tttcttttgt	tactgttctt	gctgctagaa	4020
ctttttttaa	taaaactttt	ttcaatgtga	ttaaaaaaaa			4060

&lt;210&gt; 712

&lt;211&gt; 3736

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 712

aaggaggagc	gggcccgtgga	ggcttcgccc	cctaggtact	gctataacca	gaattttggt	60
gaaaaaggat	ttacttgttg	gggccctctt	gataaaaaaga	gatgtggggg	gattctcgac	120
ctgctaacag	aactggacct	tttcgatcta	ggaccttggt	acagaactct	gccaaaaaaa	180
aaatgtttac	agaagaatgt	gctgtgatta	gagaagaata	tgctggtgtg	tagatttcaa	240
actcctntgga	caatatgaat	aacactgtct	ttgtttctac	agtgggagcc	aagaagaaag	300
gtttgtctcc	gggtggaaca	gggattatcc	tcctcctccc	cttaagagtc	atgctcaaga	360
gagacactct	ggcaactttc	ctggcagaga	ttcacttccc	tttgatttcc	aggggcattc	420
ggggcctcct	tttgcaaatg	tagaggagca	ttctttcagc	tatggagcta	gagacggacc	480
gcatggtgac	tatcgaggag	gggagggacc	tggacatgat	ttcagggggg	gagatttttc	540
gtcttctgat	ttccagagca	gagattcatc	acagttggac	ttcaggggta	gggacataca	600
ttctggggat	tttcgggata	gagaaggacc	acctatggac	tataggggtg	gagatggtac	660
ttctatggat	tatagaggta	gggaggcacc	tcatatgaac	tacagagaca	gggatgctca	720
cgctgttgac	ttcagaggta	gggatgctcc	tccatctgac	ttcagggggc	ggggcactta	780
tgatttagat	tttagaggcc	gggatggatc	ccatgcagat	tttaggggaa	gggatttatc	840
agatttggtg	tttagggcca	gagaacagtc	ccgttctgat	tttaggaata	gagatgtatc	900
tgatttggtg	tttagagaca	aagacggaac	acaagtagac	tttagaggcc	gaggttcagg	960
tactactgat	ctagacttta	gggacaggga	tacgccacat	tcagatttca	gaggtagaca	1020
ccgacttagg	actgatcagg	atttttaggg	cagagagatg	ggatcttgta	tggaatttaa	1080
agatagggag	atgccccctg	tggatccaaa	tattttggat	tacattcagc	cctctacaca	1140
agatagagaa	cattctggta	tgaatgtgaa	caggagagaa	gaatccacac	acgaccatac	1200
gatagaaagg	cctgcttttg	gcattcagaa	gggagaattt	gagcattcag	aaacaagaga	1260
aggagaaaca	caaggtgtag	cctttgaaca	tgagtctcca	gcagactttc	agaacagcca	1320
aagtccagtt	caagaccaag	ataagtcaca	gctttctgga	cgtgaagagc	agagttcaga	1380

```

tgctggtctg tttaaagaag aaggcgggtct ggacttttctt gggcggaag acaccgatta 1440
cagaagcatg gagtaccgtg atgtggatca taggctgcca ggaagccaga tgtttggcta 1500
tgccagagc aagtcttttc cagagggcaa aactgcccga gatgcccac gggaccttca 1560
ggatcaagat tataggaccg gccaagtga ggagaaaccc agcaggctta ttcgattaag 1620
tggtgtacct gaagatgcca caaaagaaga gattcttaat gcttttcgga ctctgatgg 1680
catgctgtga aagaacttgc agttgaagga gtataacaca ggttacgact atggctatgt 1740
ctgctggag ttttactct tggagatgc catcgatgc atggaggcca accaggaac 1800
tctaattgatc caggacaaag aagttaccct ggagtatgta tcaagcctgg atttttgta 1860
ctgcaaacga tgtaaggcaa acattggtgg gcaccgatct tcctgttcat tctgcaagaa 1920
cccaagagaa gtgacagagg ccaagcaaga attaataacc taccctcagc ctcaaaaaac 1980
atccatacca gcaccattgg aaaaacagcc caaccagccc ctaagaccag ctgataagga 2040
acctgaaccc aggaagaggg aagaaggcca agagtacgc ttaggacatc aaaagagaga 2100
agcagaaagg tatctgcctc cttctcgaag ggaaggcca actttccgaa gagaccgaga 2160
gagggagtca tggctggag agacacgcca ggatggagag agcaaaacta tcatgctaaa 2220
gcgtatctat cgttccacac cacctgaggt gatagtggaa gtgctggagc cctatgtccg 2280
ccttactact gccaacgtcc gtatcatcaa gaacagaaca ggccctatgg ggcataccta 2340
tggtcttatt gacctcgact ccatgtgga agctcttctg gtggtgaaga tcttacagaa 2400
ccttgatccg ccatttagca ttgatgggaa gatggtagct gtaaacctgg ccactggaaa 2460
acgaagaaat gattctgggg accattctga ccacatgcat tactatcagg gtaaaaaata 2520
tttccgagat aggaggggag gtggcagaaa ttcagactgg tcttcagata caaatcgaca 2580
aggacaacag tcatcatctg actgctacat atatgattct gctagtggct actattatga 2640
ccccttggca ggaacttatt atgaccccaa taccagcaa gaagtctatg tgccccagga 2700
tcttgatta cctgaggaag aagagatcaa ggaaaaaaa cccaccagtc aaggaaagtc 2760
aagtagcaag aaggaaatgt ctaaaagaga tggcaaggag aaaaaagaca gaggagtgc 2820
gaggtttcag gaaaatgcca gtgaaggga ggccctgca gaagacgtct ttaagaagcc 2880
cctgcctcct actgtgaaga aggaagagag tccccctcca cctaaagtgg taaaccact 2940
gatcggcctc ttgggtgaat atggaggaga cagtgcactat gaggaggag aagaggagga 3000
acagaccct cccccacagc cccgcacagc acagcccag aagcgagagg agcaaaccaa 3060
gaaggagaat gaagaagaca aactcactga ctggaataaa ctggcttgtc tgctttgcag 3120
aaggcagttt cccaataaag aagttctgat caaacaccag cagctgtcag acctgcaca 3180
gcaaaacctg gaaatccacc ggaagataaa acagtctgag caggagctag cctatctgga 3240
aaggagagaa cgagaggga agtttaaagg aagaggaaat gatcgaggg aaaagctcca 3300
gtcttttgac tctccagaaa ggaaacggat taagtactcc agggaaactg acagtgatcg 3360
taaacttgtt gataaagaag atatcgacac tagcagcaaa ggaggctgtg tccaacaggc 3420
tactggctgg aggaaggga caggcctggg atatggccat cctggattgg cttcatcaga 3480
ggaggctgaa ggccgatga gggcccccag tgttgagcc tcaggaagaa ccagcaaaag 3540
acagtccaac gagacttatc gagatgctgt tcgaagagtc atgtttgtc gatataaaga 3600
actcgattaa gaaaggagac aagttccatg ggatacaacc tccctcttgt tttgtttgtc 3660
tctccttttc tttgtttact gttcttctg ctagaacttt tttaaataaa ctttttttca 3720
atgtgattaa aaaaaa 3736

```

&lt;210&gt; 713

&lt;211&gt; 10

&lt;212&gt; PRT

&lt;213&gt; Homo Sapiens

&lt;400&gt; 713

Asn Val Glu Glu Xaa His Ser Phe Ser Tyr

1

5

10

&lt;210&gt; 714

&lt;211&gt; 10

&lt;212&gt; PRT

&lt;213&gt; Homo Sapiens

<400> 714  
Pro Val Asp Pro Xaa Asn Ile Leu Asp Tyr  
1 5 10

<210> 715  
<211> 10  
<212> PRT  
<213> Homo Sapiens

<400> 715  
Asp Thr Asp Tyr Xaa Arg Ser Met Glu Tyr  
1 5 10

<210> 716  
<211> 10  
<212> PRT  
<213> Homo Sapiens

<400> 716  
Ser Leu Leu Glu Xaa Asp Ala Ile Gly Cys  
1 5 10

<210> 717  
<211> 10  
<212> PRT  
<213> Homo Sapiens

<400> 717  
Thr Leu Met Ile Xaa Gln Asp Lys Glu Val  
1 5 10

<210> 718  
<211> 10  
<212> PRT  
<213> Homo Sapiens

<400> 718  
Tyr Val Ser Ser Leu Asp Phe Trp Tyr Cys  
1 5 10

<210> 719  
<211> 10  
<212> PRT  
<213> Homo Sapiens

<400> 719  
Val Ile Val Glu Val Leu Glu Pro Tyr Val  
1 5 10

<210> 720  
<211> 10  
<212> PRT  
<213> Homo Sapiens

<400> 720

Lys Leu Thr Asp Xaa Trp Asn Lys Leu Ala  
 1 5 10

<210> 721  
 <211> 10  
 <212> PRT  
 <213> Homo Sapiens

<400> 721  
 Gln Leu Ser Asp Leu His Lys Gln Asn Leu  
 1 5 10

<210> 722  
 <211> 10  
 <212> PRT  
 <213> Homo Sapiens

<400> 722  
 Lys Gln Ser Glu Gln Glu Leu Ala Tyr Leu  
 1 5 10

<210> 723  
 <211> 10  
 <212> PRT  
 <213> Homo Sapiens

<400> 723  
 Lys Leu Val Asp Lys Glu Asp Ile Asp Thr  
 1 5 10

<210> 724  
 <211> 10  
 <212> PRT  
 <213> Homo Sapiens

<400> 724  
 Val Met Phe Ala Xaa Arg Tyr Lys Glu Leu  
 1 5 10

<210> 725  
 <211> 10  
 <212> PRT  
 <213> Homo Sapiens

<400> 725  
 Gln Met Phe Gly Xaa Tyr Gly Gln Ser Lys  
 1 5 10

<210> 726  
 <211> 10  
 <212> PRT  
 <213> Homo Sapiens

<400> 726  
 Gly Met Pro Val Lys Asn Leu Gln Leu Lys

1	5	10
<210> 727		
<211> 10		
<212> PRT		
<213> Homo Sapiens		
<400> 727		
Gly Leu Pro Glu Xaa Glu Glu Glu Ile Lys		
1	5	10
<210> 728		
<211> 10		
<212> PRT		
<213> Homo Sapiens		
<400> 728		
Leu Leu Cys Arg Arg Gln Phe Pro Asn Lys		
1	5	10
<210> 729		
<211> 10		
<212> PRT		
<213> Homo Sapiens		
<400> 729		
Glu Tyr Arg Asp Xaa Val Asp His Arg Leu		
1	5	10
<210> 730		
<211> 10		
<212> PRT		
<213> Homo Sapiens		
<400> 730		
Gly Tyr Val Cys Xaa Val Glu Phe Ser Leu		
1	5	10
<210> 731		
<211> 10		
<212> PRT		
<213> Homo Sapiens		
<400> 731		
Asp Tyr Gly Tyr Xaa Val Cys Val Glu Phe		
1	5	10
<210> 732		
<211> 10		
<212> PRT		
<213> Homo Sapiens		
<400> 732		
Trp Tyr Cys Lys Arg Cys Lys Ala Asn Ile		
1	5	10

<210> 733  
 <211> 10  
 <212> PRT  
 <213> Homo Sapiens

<400> 733  
 Thr Tyr Pro Gln Pro Gln Lys Thr Ser Ile  
 1 5 10

<210> 734  
 <211> 10  
 <212> PRT  
 <213> Homo Sapiens

<400> 734  
 Ile Tyr Arg Ser Thr Pro Pro Glu Val Ile  
 1 5 10

<210> 735  
 <211> 10  
 <212> PRT  
 <213> Homo Sapiens

<400> 735  
 His Tyr Tyr Gln Xaa Gly Lys Lys Tyr Phe  
 1 5 10

<210> 736  
 <211> 10  
 <212> PRT  
 <213> Homo Sapiens

<400> 736  
 Val Tyr Val Pro Xaa Gln Asp Pro Gly Leu  
 1 5 10

<210> 737  
 <211> 10  
 <212> PRT  
 <213> Homo Sapiens

<400> 737  
 Trp Asn Arg Asp Tyr Pro Pro Pro Pro Leu  
 1 5 10

<210> 738  
 <211> 10  
 <212> PRT  
 <213> Homo Sapiens

<400> 738  
 Met Pro Pro Val Xaa Asp Pro Asn Ile Leu  
 1 5 10

<210> 739

<211> 10  
<212> PRT  
<213> Homo Sapiens

<400> 739  
Thr Ala Arg Asp Xaa Ala Gln Arg Asp Leu  
1 5 10

<210> 740  
<211> 10  
<212> PRT  
<213> Homo Sapiens

<400> 740  
Gly Pro Ser Glu Glu Lys Pro Ser Arg Leu  
1 5 10

<210> 741  
<211> 10  
<212> PRT  
<213> Homo Sapiens

<400> 741  
Thr Pro Pro Glu Val Ile Val Glu Val Leu  
1 5 10

<210> 742  
<211> 10  
<212> PRT  
<213> Homo Sapiens

<400> 742  
Arg Val Met Phe Ala Arg Tyr Lys Glu Leu  
1 5 10

<210> 743  
<211> 10  
<212> PRT  
<213> Homo Sapiens

<400> 743  
Arg Glu Met Gly Xaa Ser Cys Met Glu Phe  
1 5 10

<210> 744  
<211> 10  
<212> PRT  
<213> Homo Sapiens

<400> 744  
Glu Glu Gln Ser Ser Asp Ala Gly Leu Phe  
1 5 10

<210> 745  
<211> 10



&lt;212&gt; PRT

&lt;213&gt; Homo Sapiens

&lt;400&gt; 745

Lys Glu Tyr Asn Xaa Thr Gly Tyr Asp Tyr  
1 5 10

&lt;210&gt; 746

&lt;211&gt; 10

&lt;212&gt; PRT

&lt;213&gt; Homo Sapiens

&lt;400&gt; 746

Thr Glu Ala Lys Gln Glu Leu Ile Thr Tyr  
1 5 10

&lt;210&gt; 747

&lt;211&gt; 10

&lt;212&gt; PRT

&lt;213&gt; Homo Sapiens

&lt;400&gt; 747

Val Glu Ala Leu Arg Val Val Lys Ile Leu  
1 5 10

&lt;210&gt; 748

&lt;211&gt; 10

&lt;212&gt; PRT

&lt;213&gt; Homo Sapiens

&lt;400&gt; 748

Gly Glu Tyr Gly Xaa Gly Asp Ser Asp Tyr  
1 5 10

&lt;210&gt; 749

&lt;211&gt; 10

&lt;212&gt; PRT

&lt;213&gt; Homo Sapiens

&lt;400&gt; 749

Leu Glu Arg Arg Glu Arg Glu Gly Lys Phe  
1 5 10

&lt;210&gt; 750

&lt;211&gt; 10

&lt;212&gt; PRT

&lt;213&gt; Homo Sapiens

&lt;400&gt; 750

Arg Gln Asp Gly Glu Ser Lys Thr Ile Met  
1 5 10

&lt;210&gt; 751

&lt;211&gt; 10

&lt;212&gt; PRT

<213> Homo Sapiens

<400> 751

Thr	Pro	Pro	Glu	Val	Ile	Val	Glu	Val	Leu
1				5					10

<210> 752

<211> 10

<212> PRT

<213> Homo Sapiens

<400> 752

Tyr	Gly	Phe	Ile	Asp	Leu	Asp	Ser	His	Val
1				5					10

<210> 753

<211> 10

<212> PRT

<213> Homo Sapiens

<400> 753

Arg	Gln	Phe	Pro	Xaa	Asn	Lys	Glu	Val	Leu
1				5					10

<210> 754

<211> 10

<212> PRT

<213> Homo Sapiens

<400> 754

Asn	Val	Glu	Glu	Xaa	His	Ser	Phe	Ser	Tyr
1				5					10

<210> 755

<211> 10

<212> PRT

<213> Homo Sapiens

<400> 755

Pro	Val	Asp	Pro	Xaa	Asn	Ile	Leu	Asp	Tyr
1				5					10

<210> 756

<211> 10

<212> PRT

<213> Homo Sapiens

<400> 756

Asp	Thr	Asp	Tyr	Xaa	Arg	Ser	Met	Glu	Tyr
1				5					10

<210> 757

<211> 10

<212> PRT

<213> Homo Sapiens

&lt;400&gt; 757

Trp	Gln	Ser	Ala	Xaa	Arg	Phe	Tyr	Tyr	Leu
1				5					10

&lt;210&gt; 758

&lt;211&gt; 10

&lt;212&gt; PRT

&lt;213&gt; Homo Sapiens

&lt;400&gt; 758

Ser	Leu	Leu	Glu	Xaa	Asp	Ala	Ile	Gly	Cys
1				5					10

&lt;210&gt; 759

&lt;211&gt; 10

&lt;212&gt; PRT

&lt;213&gt; Homo Sapiens

&lt;400&gt; 759

Thr	Leu	Met	Ile	Xaa	Gln	Asp	Lys	Glu	Val
1				5					10

&lt;210&gt; 760

&lt;211&gt; 10

&lt;212&gt; PRT

&lt;213&gt; Homo Sapiens

&lt;400&gt; 760

Tyr	Val	Ser	Ser	Leu	Asp	Phe	Trp	Tyr	Cys
1				5					10

&lt;210&gt; 761

&lt;211&gt; 10

&lt;212&gt; PRT

&lt;213&gt; Homo Sapiens

&lt;400&gt; 761

Val	Ile	Val	Glu	Val	Leu	Glu	Pro	Tyr	Val
1				5					10

&lt;210&gt; 762

&lt;211&gt; 10

&lt;212&gt; PRT

&lt;213&gt; Homo Sapiens

&lt;400&gt; 762

Lys	Leu	Thr	Asp	Xaa	Trp	Asn	Lys	Leu	Ala
1				5					10

&lt;210&gt; 763

&lt;211&gt; 10

&lt;212&gt; PRT

&lt;213&gt; Homo Sapiens

&lt;400&gt; 763

Gln Leu Ser Asp Leu His Lys Gln Asn Leu  
1 5 10

<210> 764  
<211> 10  
<212> PRT  
<213> Homo Sapiens

<400> 764  
Lys Gln Ser Glu Gln Glu Leu Ala Tyr Leu  
1 5 10

<210> 765  
<211> 10  
<212> PRT  
<213> Homo Sapiens

<400> 765  
Lys Leu Val Asp Lys Glu Asp Ile Asp Thr  
1 5 10

<210> 766  
<211> 10  
<212> PRT  
<213> Homo Sapiens

<400> 766  
Val Met Phe Ala Xaa Arg Tyr Lys Glu Leu  
1 5 10

<210> 767  
<211> 10  
<212> PRT  
<213> Homo Sapiens

<400> 767  
Gln Met Phe Gly Xaa Tyr Gly Gln Ser Lys  
1 5 10

<210> 768  
<211> 10  
<212> PRT  
<213> Homo Sapiens

<400> 768  
Gly Met Pro Val Lys Asn Leu Gln Leu Lys  
1 5 10

<210> 769  
<211> 10  
<212> PRT  
<213> Homo Sapiens

<400> 769  
Gly Leu Pro Glu Xaa Glu Glu Glu Ile Lys

1	5	10
<210> 770		
<211> 10		
<212> PRT		
<213> Homo Sapiens		
<400> 770		
Leu	Leu	Cys Arg Arg Gln Phe Pro Asn Lys
1	5	10
<210> 771		
<211> 10		
<212> PRT		
<213> Homo Sapiens		
<400> 771		
Tyr	Tyr	Leu Asn Xaa Ala Thr Asp Val Leu
1	5	10
<210> 772		
<211> 10		
<212> PRT		
<213> Homo Sapiens		
<400> 772		
Phe	Tyr	Tyr Leu Asn Ala Thr Asp Val Leu
1	5	10
<210> 773		
<211> 10		
<212> PRT		
<213> Homo Sapiens		
<400> 773		
Glu	Tyr	Arg Asp Xaa Val Asp His Arg Leu
1	5	10
<210> 774		
<211> 10		
<212> PRT		
<213> Homo Sapiens		
<400> 774		
Gly	Tyr	Val Cys Xaa Val Glu Phe Ser Leu
1	5	10
<210> 775		
<211> 10		
<212> PRT		
<213> Homo Sapiens		
<400> 775		
Asp	Tyr	Gly Tyr Xaa Val Cys Val Glu Phe
1	5	10

<210> 776  
<211> 10  
<212> PRT  
<213> Homo Sapiens

<400> 776  
Trp Tyr Cys Lys Arg Cys Lys Ala Asn Ile  
1 5 10

<210> 777  
<211> 10  
<212> PRT  
<213> Homo Sapiens

<400> 777  
Thr Tyr Pro Gln Pro Gln Lys Thr Ser Ile  
1 5 10

<210> 778  
<211> 10  
<212> PRT  
<213> Homo Sapiens

<400> 778  
Ile Tyr Arg Ser Thr Pro Pro Glu Val Ile  
1 5 10

<210> 779  
<211> 10  
<212> PRT  
<213> Homo Sapiens

<400> 779  
His Tyr Tyr Gln Xaa Gly Lys Lys Tyr Phe  
1 5 10

<210> 780  
<211> 10  
<212> PRT  
<213> Homo Sapiens

<400> 780  
Val Tyr Val Pro Xaa Gln Asp Pro Gly Leu  
1 5 10

<210> 781  
<211> 10  
<212> PRT  
<213> Homo Sapiens

<400> 781  
Trp Asn Arg Asp Tyr Pro Pro Pro Pro Leu  
1 5 10

<210> 782

<211> 10  
<212> PRT  
<213> Homo Sapiens

<400> 782  
Met Pro Pro Val Xaa Asp Pro Asn Ile Leu  
1 5 10

<210> 783  
<211> 10  
<212> PRT  
<213> Homo Sapiens

<400> 783  
Thr Ala Arg Asp Xaa Ala Gln Arg Asp Leu  
1 5 10

<210> 784  
<211> 10  
<212> PRT  
<213> Homo Sapiens

<400> 784  
Gly Pro Ser Glu Glu Lys Pro Ser Arg Leu  
1 5 10

<210> 785  
<211> 10  
<212> PRT  
<213> Homo Sapiens

<400> 785  
Thr Pro Pro Glu Val Ile Val Glu Val Leu  
1 5 10

<210> 786  
<211> 10  
<212> PRT  
<213> Homo Sapiens

<400> 786  
Arg Val Met Phe Ala Arg Tyr Lys Glu Leu  
1 5 10

<210> 787  
<211> 10  
<212> PRT  
<213> Homo Sapiens

<400> 787  
Ser Glu Ala Trp Ser Ser Asn Glu Lys Phe  
1 5 10

<210> 788  
<211> 10

&lt;212&gt; PRT

&lt;213&gt; Homo Sapiens

&lt;400&gt; 788

Arg	Glu	Met	Gly	Xaa	Ser	Cys	Met	Glu	Phe
1				5					10

&lt;210&gt; 789

&lt;211&gt; 10

&lt;212&gt; PRT

&lt;213&gt; Homo Sapiens

&lt;400&gt; 789

Glu	Glu	Gln	Ser	Ser	Asp	Ala	Gly	Leu	Phe
1				5					10

&lt;210&gt; 790

&lt;211&gt; 10

&lt;212&gt; PRT

&lt;213&gt; Homo Sapiens

&lt;400&gt; 790

Lys	Glu	Tyr	Asn	Xaa	Thr	Gly	Tyr	Asp	Tyr
1				5					10

&lt;210&gt; 791

&lt;211&gt; 10

&lt;212&gt; PRT

&lt;213&gt; Homo Sapiens

&lt;400&gt; 791

Thr	Glu	Ala	Lys	Gln	Glu	Leu	Ile	Thr	Tyr
1				5					10

&lt;210&gt; 792

&lt;211&gt; 10

&lt;212&gt; PRT

&lt;213&gt; Homo Sapiens

&lt;400&gt; 792

Val	Glu	Ala	Leu	Arg	Val	Val	Lys	Ile	Leu
1				5					10

&lt;210&gt; 793

&lt;211&gt; 10

&lt;212&gt; PRT

&lt;213&gt; Homo Sapiens

&lt;400&gt; 793

Gly	Glu	Tyr	Gly	Xaa	Gly	Asp	Ser	Asp	Tyr
1				5					10

&lt;210&gt; 794

&lt;211&gt; 10

&lt;212&gt; PRT



&lt;213&gt; Homo Sapiens

&lt;400&gt; 794

Leu Glu Arg Arg Glu Arg Glu Gly Lys Phe  
 1 5 10

&lt;210&gt; 795

&lt;211&gt; 10

&lt;212&gt; PRT

&lt;213&gt; Homo Sapiens

&lt;400&gt; 795

Arg Gln Asp Gly Glu Ser Lys Thr Ile Met  
 1 5 10

&lt;210&gt; 796

&lt;211&gt; 10

&lt;212&gt; PRT

&lt;213&gt; Homo Sapiens

&lt;400&gt; 796

Thr Pro Pro Glu Val Ile Val Glu Val Leu  
 1 5 10

&lt;210&gt; 797

&lt;211&gt; 10

&lt;212&gt; PRT

&lt;213&gt; Homo Sapiens

&lt;400&gt; 797

Tyr Gly Phe Ile Asp Leu Asp Ser His Val  
 1 5 10

&lt;210&gt; 798

&lt;211&gt; 10

&lt;212&gt; PRT

&lt;213&gt; Homo Sapiens

&lt;400&gt; 798

Arg Gln Phe Pro Xaa Asn Lys Glu Val Leu  
 1 5 10

&lt;210&gt; 799

&lt;211&gt; 1464

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 799

agtaccgggt	acgcaggggt	gcctcaacca	cactccgtcc	acggactctc	cgttatttta	60
ggagggtccct	ggccaaagat	ttatttctct	tgacaaccaa	gggcctccgt	ctggattttcc	120
aaggaagaat	ttcctctgaa	gcaccggaac	ttgctactac	cagcaccatg	ccctaccaat	180
atccagcact	gaccccgag	cagaagaagg	agctgtctga	catcgctcac	cgcatcgtgg	240
cacctggcaa	gggcatcctg	gctgcagatg	agtccactgg	gagcattgcc	aagcggctgc	300
agtccattgg	caccgagaac	accgaggaga	accggcgctt	ctaccgccag	ctgctgctga	360
cagctgacga	ccgctggaac	ccctgcattg	ggggtgtcat	cctcttccat	gagacactct	420

```

accagaagggc ggatgatggg cgtcccttcc cccaagttat caaatccaag ggcgggtgtg      480
tgggcatcaa ggtagacaag ggcgtggtcc ccctggcagg gacaaatggc gagactacca      540
cccaaggggtt ggatgggctg tctgagcgtg gtgccagta caagaaggac ggagctgact      600
tcgccaagtg gcgttggtg ctgaagattg gggaacacac cccctcagcc ctcgccatca      660
tggaatatgc caatgttctg gcccgttatg ccagtatctg ccagcagaat ggcattgtgc      720
ccatcgtgga gcctgagatc ctccctgatg gggaccatga cttgaagcgc tgccagtatg      780
tgaccgagaa ggtgctggct gctgtctaca aggcctctgag tgaccaccac atctacctgg      840
aaggcacctt gctgaagccc aacatgggtca ccccaggcca tgcttgcaact cagaagtttt      900
ctcatgagga gattgccatg gcgaccgtca cagcgtcgc cgcacagtg ccccccgtg      960
tcaactggga cacttctctg tctggaggcc agagtgagga ggaggcgtcc atcaacctca     1020
atgccattaa caagtgtccc ctgctgaagc cctggggcct gaccttctcc tacggccgag     1080
ccctgcaggc ctctgccctg aaggcctggg gcgggaagaa ggagaacctg aaggctgcgc     1140
aggaggagta tgtcaagcga gccctggcca acagccttgc ctgtcaagga aagtacactc     1200
cgagcgggtca ggctggggct gctgccagcg agtccctctt cgtctctaac cacgcctatt     1260
aagcggaggt gttcccaggc tgccccaac aactccaggc cctgccccct cccactcttg     1320
aagaggaggc cgcctcctcg gggctccagg ctggcttgcc cgcgctcttt cttccctcgt     1380
gacagtgtg tggtgtgtcg tctgtgaatg ctaagtccat cacccttcc ggcacactgc     1440
caaataaaca gctatttaag gggg                                     1464

```

&lt;210&gt; 800

&lt;211&gt; 364

&lt;212&gt; PRT

&lt;213&gt; Homo Sapiens

&lt;400&gt; 800

```

Met Pro Tyr Gln Tyr Pro Ala Leu Thr Pro Glu Gln Lys Lys Glu Leu
  1              5              10              15
Ser Asp Ile Ala His Arg Ile Val Ala Pro Gly Lys Gly Ile Leu Ala
      20              25              30
Ala Asp Glu Ser Thr Gly Ser Ile Ala Lys Arg Leu Gln Ser Ile Gly
      35              40              45
Thr Glu Asn Thr Glu Glu Asn Arg Arg Phe Tyr Arg Gln Leu Leu Leu
      50              55              60
Thr Ala Asp Asp Arg Val Asn Pro Cys Ile Gly Gly Val Ile Leu Phe
      65              70              75              80
His Glu Thr Leu Tyr Gln Lys Ala Asp Asp Gly Arg Pro Phe Pro Gln
      85              90              95
Val Ile Lys Ser Lys Gly Gly Val Val Gly Ile Lys Val Asp Lys Gly
      100             105             110
Val Val Pro Leu Ala Gly Thr Asn Gly Glu Thr Thr Thr Gln Gly Leu
      115             120             125
Asp Gly Leu Ser Glu Arg Cys Ala Gln Tyr Lys Lys Asp Gly Ala Asp
      130             135             140
Phe Ala Lys Trp Arg Cys Val Leu Lys Ile Gly Glu His Thr Pro Ser
      145             150             155             160
Ala Leu Ala Ile Met Glu Asn Ala Asn Val Leu Ala Arg Tyr Ala Ser
      165             170             175
Ile Cys Gln Gln Asn Gly Ile Val Pro Ile Val Glu Pro Glu Ile Leu
      180             185             190
Pro Asp Gly Asp His Asp Leu Lys Arg Cys Gln Tyr Val Thr Glu Lys
      195             200             205
Val Leu Ala Ala Val Tyr Lys Ala Leu Ser Asp His His Ile Tyr Leu
      210             215             220
Glu Gly Thr Leu Leu Lys Pro Asn Met Val Thr Pro Gly His Ala Cys
      225             230             235             240

```

```
<210> 801
<211> 3504
<212> DNA
<213> Homo Sapiens
```

<400> 801						
ctctgctttt	ctctttcaga	gctgttgccg	agccattggg	acctgtattg	gggaaacata	60
gcatacaagc	aagaagctta	cagcctcagt	ggcgaaaaat	ttttcatgtc	agagaccgag	120
aactcttgc	gtcgtttatg	tcatcccttc	ttctccagac	agaagatacc	aaaaagttgc	180
aatcaaagat	ctgttcatct	tattgataaa	gtcactaata	agccaaaatg	tctgtcaacg	240
tcaaccgcag	cgtgtcagac	cagttctatc	gctacaagat	gccccgtttg	attgctaagg	300
ttgagggcaa	aggaaatgga	atcaagacag	ttatagtcaa	catggttgac	gttgcaaagg	360
cgcttaatcg	gcttccaacg	tatcccacca	aataattttg	ttgtgagctg	ggagcacaga	420
ccgagtttga	tgttaagaat	gaccgtttaca	ttgtcaatgg	atctcatctg	gcgcaataagc	480
tccaagacat	tttggatgga	tcatttaaaa	aatttgttct	ctgtcctgag	tgtgagatac	540
ctgaaacaga	tctgcatgtc	aatccaaaga	agcaaacaa	aggtaattct	tgtaaagcct	600
gtgggtaccg	aggcatgctt	gacacacatc	ataaactctg	tacattcatt	ctcaaaaacc	660
cacctgagaa	tagtgacatt	ggtacaggaa	agaaagagaa	agaaaagaaa	aatagaaagg	720
gcaaggacaa	ggaaaatggc	tctgtatcca	ccagtgaagc	accaccacct	ccaccaccaa	780
atgaaattag	tcctccacat	gctgtggaag	aagagggaag	tgatgattgg	ggggaggata	840
caactgagga	agctcaaagg	cgcagaatgg	atgaaatcag	tgaccatgca	aaaggctctga	900
cacttagcga	tgattttggaa	agaactgtag	aagagcgtgt	taacatcctg	tttgattttg	960
ttaagaaaaa	gaaagaagag	ggcattattg	attcatctga	taaagacatt	gtggctgagg	1020
cagaagaact	ggatgtataa	gccattgggc	ctctcgtttt	gacagaagtt	ctcttttgat	1080
agaagataag	agagcaaatc	agaaaataca	ggcgctcatt	tttaagattt	tgtcataaca	1140
acaaaaaaggc	ccagcggtag	cttcttcatg	gtttggaatg	tgtggtagca	atgcatcaag	1200
ctcagttgat	ctccaagatt	ccacatatct	tgaaggagat	gtatgatgca	gaccttttag	1260
aggaagaggt	cattatcagc	tggtcagaaa	aggcctctaa	gaaatatgtc	tcaaaagaac	1320
ttgccaaaaga	gattcgtgtc	aaagcagagc	cattttattaa	atggttgaag	gaagcggagg	1380
aggaatcttc	tggtggtagg	gaagaagacg	aagatgaaaa	tattgagggtg	gtatatctga	1440
agactgccag	tgtaccaaaa	gttgaaactg	tgaagtctga	caacaaggat	gacgacattg	1500
atattgatgc	catttaaaag	gatggatgca	acttagctta	acagtgtaat	gctgcaaatt	1560
tttctccatt	atcagccaga	agtgcaacat	gtatgtgcaa	gagctaaagt	ggcttaacat	1620
catgctacac	ttgatactaa	aaagctatta	ctgtgagtgg	tctataatta	agcccaatga	1680
gacatctagg	gagtcacata	atatcagtga	gcagttgtag	tttgcttatt	tatagcatgt	1740
ttcttttcgga	aaaactagtg	gtggacacat	ttggatcaca	tttatacagt	tataaaaaat	1800
aaagatttga	ttttggtcat	tcttcagact	ttgggctatg	aatggcctat	gctgaagtaa	1860
ttggctactt	ttaggatggt	acaccattta	ataacttaga	cttcttaagt	tttgtgaatt	1920

```

gttaggtact gaagacttga agaatgcaaa caattataat gaccttactc agccattaag 1980
aaatgaagta ttttgaaagt tgtgtctcca gtccattgag attggcaact gacaattcctt 2040
gtcattctaa ggaaatttga tgatttaattg acagtgtgac atcctcatga gaagtaaaaa 2100
tgacctgtgt gtctatgggt ttaagagcaa attttgaaac ttggagttgt gggtttttcag 2160
tttgtgtaca ctcaaaaaa attgtagtct attgagtcac gtgcattgca cgttgataaa 2220
gccagggaag tgacaaataa gtattttgtg tgtatttagt ggttgctttg tactgagaga 2280
aaagctttga ggtgtgatta aatcgtaaac tctgattcta tttgggagaa acaggaaaaa 2340
ggtgcactta atctaaaaca gcataagttt tcaactttta ccctaaatt ataatttcaa 2400
gatgtttaga catactgtat cttgtgtttg atgtgttccc cctocctaatt attatggttt 2460
attctttaat gccttttaatt ttggatataa tagcttgtag ttttagatttt ggttgctatc 2520
ttgccaaaat aagtgttact gtttttcaag cttgatcccc tccctgatt gtcttattta 2580
aagagaaagt taaactcata cttctgagtc agagcctgta ttttggttaa gacttgggat 2640
attttttact tcacattgaa tatagctgga tacctgagaa gtctggtgat ggcactgggt 2700
gggtgcagct agctaaggcc tgaccagccc attcagagcc ttggacttca gacacaaaag 2760
tgagtctctt acccacttgc tgggtgtaaac tctatctggg gtccctgacta tatttgaata 2820
cttgtcttca atattaaaaa acatagcaca tttttctttc tacaaaagta cattctggag 2880
ttaagaaccc atgtggttga tttgtgtgtg gcgtgctagc tcatacatta tttggatctt 2940
attctttgtg tcacccatct cacagattat aagactttga ttaatgtaaa agtatgcgt 3000
taaaatcata ccaaacattt ggtaaaatta aaaccttgat gggaggctgg gcgtggaaca 3060
ggagccatat acctggaatg gtaacagggg aatgtgctat gtcacaccaa agaagtggga 3120
cttggaaggt cacttgtctc ctgggtttca gactctttgt tgcattggga gcccatccat 3180
atgtcattac tttttgagat tctcaagtag atcagcacat ttcggcctca ggttggaag 3240
attttgtctt agagctgttg ctttaaaggg aaatggtcag gtcttagaca cttaggagg 3300
tcttgggctt ctgttcattc tggtgccaaa ccagtgggat tcaaatttca cacaatctgg 3360
gtttttattc atggagggtta acctggtaag agtaatcctt catggctcta ttgaggtgtc 3420
ttaaaaagtt tcctgtttca aacagctaca ttacttgatt aaaacaatgt tataaaatta 3480
aatttcccc tcctttcata ttaa 3504

```

&lt;210&gt; 802

&lt;211&gt; 429

&lt;212&gt; PRT

&lt;213&gt; Homo Sapiens

&lt;400&gt; 802

```

Met Ser Val Asn Val Asn Arg Ser Val Ser Asp Gln Phe Tyr Arg Tyr
 1             5             10             15
Lys Met Pro Arg Leu Ile Ala Lys Val Glu Gly Lys Gly Asn Gly Ile
 20             25             30
Lys Thr Val Ile Val Asn Met Val Asp Val Ala Lys Ala Leu Asn Arg
 35             40             45
Pro Pro Thr Tyr Pro Thr Lys Tyr Phe Gly Cys Glu Leu Gly Ala Gln
 50             55             60
Thr Gln Phe Asp Val Lys Asn Asp Arg Tyr Ile Val Asn Gly Ser His
 65             70             75             80
Glu Ala Asn Lys Leu Gln Asp Met Leu Asp Gly Phe Ile Lys Lys Phe
 85             90             95
Val Leu Cys Pro Glu Cys Glu Asn Pro Glu Thr Asp Leu His Val Asn
100             105             110
Pro Lys Lys Gln Thr Ile Gly Asn Ser Cys Lys Ala Cys Gly Tyr Arg
115             120             125
Gly Met Leu Asp Thr His His Lys Leu Cys Thr Phe Ile Leu Lys Asn
130             135             140
Pro Pro Glu Asn Ser Asp Ile Gly Thr Gly Lys Lys Glu Lys Glu Lys
145             150             155             160
Lys Asn Arg Lys Gly Lys Asp Lys Glu Asn Gly Ser Val Ser Thr Ser

```

```
<210> 803
<211> 2251
<212> DNA
<213> Homo Sapiens
```

<400> 803						
aggatgtctt	ctggcaattt	catataagta	ttttttcaaa	aatgtctctt	ctgtcaaccc	60
cacgcctttt	gcacaatgaa	gtgggtaacc	tttatttccc	ttctttttct	ctttagctcg	120
gcttattcca	ggggtgtgtt	tcgtcgagat	gcacacaaga	gtgaggttgc	tcatcggttt	180
aaagatttgg	gagaagaaaa	tttcaaagcc	ttgggtgtga	ttgcctttgc	tcagtatctt	240
cagcagtgtc	catttgaaga	tcatgtaaaa	ttagtgaatg	aagtaactga	atttgcaaaa	300
acatgtgtag	ctgatgagtc	agctgaaaaa	tgtgacaaat	cacttcatatc	ccctttttgga	360
gacaaattat	gcacagttgc	aactcttcgt	gaaacctatg	gtgaaatggc	tgactgtctgt	420
gcaaaacaag	aacctgagag	aatgaatgc	ttcttgcaac	acaaagatga	caacccaaac	480
ctccccgat	tggtgagacc	agaggttgat	gtgatgtgca	ctgcttttca	tgacaatgaa	540
gagacatttt	tgaaaaaata	cttatatgaa	attgccagaa	gacatcctta	cttttatgcc	600
cggaactcc	ttttctttgc	taaaaggtat	aaagctgctt	ttacagaatg	ttgccaaagt	660
gctgataaag	ctgcctgcct	gttgccaaag	ctcgatgaac	ttcgggatga	agggaaggct	720
tcgtctgccca	aacagagact	caaatgtgcc	agtctccaaa	aatttgagga	aagagctttc	780
aaagcatggg	cagtggtctg	ctctagccag	agatttccca	aagctgaggt	tgcaagaattt	840
tccaagtttag	tgacagatct	taccaaagtc	cacacggaat	gtgcgcgatg	agactctctt	900

```

gaatgtgctg atgacagggc ggaccttgcc aagtatatct gtgaaaatca ggattcgatc 960
tccagtaaac tgaaggaatg ctgtgaaaaa cctctgttgg aaaaatccca ctgcattgcc 1020
gaagtggaaa atgatgagat gcctgctgac ttgccttcat tagctgctga ttttggtgaa 1080
agtaaggatg tttgcaaaaa ctatgctgag gcaaaggatg tcttcctggg catgtttttg 1140
tatgaatatg caagaaggca tcttgattac tctgtcgtgc tgctgctgag acttgccaag 1200
acatatgaaa ccaactctaga gaagtgtgtg gccgctgcag atcctcatga atgctatgcc 1260
aaagtgttcg atgaatttaa acctcttgtg gaagagcctc agaatttaat caaacaaaac 1320
tgtgagcttt ttaagcagct tggagagtac aaattccaga atgcgctatt agttcggtac 1380
accaagaaag taccccaagt gtcaactcca actctttagt aggtctcaag aaacctagga 1440
aaagtgggca gcaaatgttg taaacatcct gaagcaaaaa gaatgccctg tgcagaagac 1500
tatctatccg tggctctgaa ccagttatgt gtgttgcag agaaaacgcc agtaagtgc 1560
agagtcacaa aatgctgcac agagtccctg gtgaacaggc gaccatgctt ttcagctctg 1620
gaagtcgatg aaacatacgt tcccaaagag tttaatgctg aaacattcac cttccatgca 1680
gatatatgca cactttctga gaaggagaga caaatcaaga aacaaactgc acttggtgag 1740
cttgtgaaac acaagcccaa ggcaacaaaa gagcaactga aagctgttat ggatgatttc 1800
gcagcttttg tagagaagtg ctgcaaggct gacgataagg agacctgctt tgccgaggag 1860
ggtaaaaaac ttgttgctgc aagtcaagct gccttaggct tataacatct acatttaaaa 1920
gcattctcagc ctaccatgag aataagagaa agaaaatgaa gatcaaaaagc ttattcatct 1980
gttttctttt tcgttggtgt aaagccaaca ccctgtctaa aaaacataaa tttctttaat 2040
cattttgcct cttttctctg tgcttcaatt aataaaaaat ggaaagaatc taatagagtg 2100
gtacagcact gttatttttc aaagatgtgt tgctatcctg aaaattctgt aggttctgtg 2160
gaagttccag tgttctctct tattccactt cgttagagga tttctagttt ctgtgggcta 2220
atataataaa tcactaatac tcttctaagt t 2251

```

&lt;210&gt; 804

&lt;211&gt; 609

&lt;212&gt; PRT

&lt;213&gt; Homo Sapiens

&lt;400&gt; 804

```

Met Lys Trp Val Thr Phe Ile Ser Leu Leu Phe Leu Phe Ser Ser Ala
 1             5             10             15
Tyr Ser Arg Gly Val Phe Arg Arg Asp Ala His Lys Ser Glu Val Ala
      20             25             30
His Arg Phe Lys Asp Leu Gly Glu Glu Asn Phe Lys Ala Leu Val Leu
      35             40             45
Ile Ala Phe Ala Gln Tyr Leu Gln Gln Cys Pro Phe Glu Asp His Val
      50             55             60
Lys Leu Val Asn Glu Val Thr Glu Phe Ala Lys Thr Cys Val Ala Asp
      65             70             75             80
Glu Ser Ala Glu Asn Cys Asp Lys Ser Leu His Thr Leu Phe Gly Asp
      85             90             95
Lys Leu Cys Thr Val Ala Thr Leu Arg Glu Thr Tyr Gly Glu Met Ala
      100            105            110
Asp Cys Cys Ala Lys Gln Glu Pro Glu Arg Asn Glu Cys Phe Leu Gln
      115            120            125
His Lys Asp Asp Asn Pro Asn Leu Pro Arg Leu Val Arg Pro Glu Val
      130            135            140
Asp Val Met Cys Thr Ala Phe His Asp Asn Glu Thr Phe Leu Lys
      145            150            155            160
Lys Tyr Leu Tyr Glu Ile Ala Arg Arg His Pro Tyr Phe Tyr Ala Pro
      165            170            175
Glu Leu Leu Phe Phe Ala Lys Arg Tyr Lys Ala Ala Phe Thr Glu Cys
      180            185            190
Cys Gln Ala Ala Asp Lys Ala Ala Cys Leu Leu Pro Lys Leu Asp Glu

```

195	200	205
Leu Arg Asp Glu Gly Lys	Ala Ser Ser Ala Lys	Gln Arg Leu Lys Cys
210	215	220
Ala Ser Leu Gln Lys Phe	Gly Glu Arg Ala Phe	Lys Ala Trp Ala Val
225	230	235
Ala Arg Leu Ser Gln Arg	Phe Pro Lys Ala Glu	Phe Ala Glu Val Ser
245	250	255
Lys Leu Val Thr Asp Leu	Thr Lys Val His Thr	Glu Cys Cys His Gly
260	265	270
Asp Leu Leu Glu Cys Ala	Asp Asp Arg Ala Asp	Leu Ala Lys Tyr Ile
275	280	285
Cys Glu Asn Gln Asp Ser	Ile Ser Ser Lys Leu	Lys Glu Cys Cys Glu
290	295	300
Lys Pro Leu Leu Glu Lys	Ser His Cys Ile Ala	Glu Val Glu Asn Asp
305	310	315
Glu Met Pro Ala Asp Leu	Pro Ser Leu Ala Ala	Asp Phe Val Glu Ser
325	330	335
Lys Asp Val Cys Lys Asn	Tyr Ala Glu Ala Lys	Asp Val Phe Leu Gly
340	345	350
Met Phe Leu Tyr Glu Tyr	Ala Arg Arg His Pro	Asp Tyr Ser Val Val
355	360	365
Leu Leu Leu Arg Leu Ala	Lys Thr Tyr Glu Thr	Thr Leu Glu Lys Cys
370	375	380
Cys Ala Ala Ala Asp Pro	His Glu Cys Tyr Ala	Lys Val Phe Asp Glu
385	390	395
Phe Lys Pro Leu Val Glu	Glu Glu Pro Gln Asn	Leu Ile Lys Gln Asn Cys
405	410	415
Glu Leu Phe Lys Gln Leu	Gly Glu Tyr Lys Phe	Gln Asn Ala Leu Leu
420	425	430
Val Arg Tyr Thr Lys Lys	Val Pro Gln Val Ser	Thr Pro Thr Leu Val
435	440	445
Glu Val Ser Arg Asn Leu	Gly Lys Val Gly Ser	Lys Cys Cys Lys His
450	455	460
Pro Glu Ala Lys Arg Met	Pro Cys Ala Glu Asp	Tyr Leu Ser Val Val
465	470	475
Leu Asn Gln Leu Cys Val	Leu His Glu Lys Thr	Pro Val Ser Asp Arg
485	490	495
Val Thr Lys Cys Cys Thr	Glu Ser Leu Val Asn	Arg Arg Pro Cys Phe
500	505	510
Ser Ala Leu Glu Val Asp	Glu Thr Tyr Val Pro	Lys Glu Phe Asn Ala
515	520	525
Glu Thr Phe Thr Phe His	Ala Asp Ile Cys Thr	Leu Ser Glu Lys Glu
530	535	540
Arg Gln Ile Lys Lys Gln	Thr Ala Leu Val Glu	Leu Val Lys His Lys
545	550	555
Pro Lys Ala Thr Lys Glu	Gln Leu Lys Ala Val	Met Asp Asp Phe Ala
565	570	575
Ala Phe Val Glu Lys Cys	Cys Lys Ala Asp Asp	Lys Glu Thr Cys Phe
580	585	590
Ala Glu Glu Gly Lys Lys	Leu Val Ala Ala Ser	Gln Ala Ala Leu Gly
595	600	605
Leu		

&lt;210&gt; 805

<211> 1356  
 <212> DNA  
 <213> Homo Sapiens

<400> 805

acaaacacca	aggagtggag	gtcagagtgt	cacttttttg	ttttcttttt	gaaagatcat	60
tcgagaaaca	cgctactgat	ctcccctgcg	accatgtctt	ccattaagat	tgagtgtgtt	120
ttgccagaga	actgccggtg	tggtgagtct	ccagtatggg	aggaagtgtc	caactctctg	180
ctctttgtag	acattcctgc	aaaaaagggt	tgccggtggg	attcattcac	caagcaagta	240
cagcgagtga	ccatggatgc	cccagtcagc	tccgtggctc	ttcgccagtc	gggaggctat	300
gttgccacca	ttggaacaaa	gttctgtgct	ttgaactgga	aagaacaatc	agcagttgtc	360
ttggccacgg	tggataacga	caagaaaaac	aatcgcttca	atgatgggaa	ggtggatccc	420
gccgggaggt	actttgctgg	caccatggct	gaggaacacg	ctccagcagt	tcttgagcgg	480
caccaggggg	ccctgtactc	cctctttcct	gatcaccacg	tgaaaaagta	ctttgaccag	540
gtggacattt	ccaatggttt	ggattggctg	ctagaccaca	aaatcttcta	ttacattgac	600
agcctgtcct	actccgtgga	tgcttttgac	tatgacctgc	agacaggaca	gatctccaac	660
cgcagaagtg	tttacaagct	agaaaaggaa	gaacaaatcc	cagatggaat	gtgtattgat	720
gctgagggga	agctctgggt	ggcctgttac	aatggaggaa	gagtgattcg	tttagatcct	780
gtgacagggg	aaagacttca	aactgtgaag	ttgcctgttg	ataaaacaac	ttcatgctgc	840
tttgagggga	agaattactc	tgaatgtat	gtgacctgcg	cccgggatgg	gatggacccc	900
gagggctctt	tgaggcaacc	tgaagctggg	ggaattttca	agataactgg	tctgggggtc	960
aaaggaattg	ctccctactc	ctatgcggga	tgaggacagg	tcttctttcc	tgccagaggg	1020
agctctgaag	acaactagag	aattctgggc	ctgaaatttc	aatctagtta	gaaagaaaaa	1080
tgaggcaatg	atttttattaa	cagcgttaag	ttttaattta	caacttttaa	aaggcagagc	1140
atttttaaca	aggggtgaca	ggtgggtttg	ataacacact	tataaggctt	tctgtaaaag	1200
gtactataga	agggcgaaga	atcgttcaac	tgtcaatcag	cctcttgatt	ctttgtaaat	1260
tgccaggggtg	ggtgggtaca	tatctcttct	tgattctgca	tttcatactt	aactatatta	1320
aagcttcaag	gaacaataaa	tagtaacctg	gtaatg			1356

<210> 806  
 <211> 299  
 <212> PRT  
 <213> Homo Sapiens

<400> 806

Met	Ser	Ser	Ile	Lys	Ile	Glu	Cys	Val	Leu	Pro	Glu	Asn	Cys	Arg	Cys
1				5					10					15	
Gly	Glu	Ser	Pro	Val	Trp	Glu	Glu	Val	Ser	Asn	Ser	Leu	Leu	Phe	Val
			20					25					30		
Asp	Ile	Pro	Ala	Lys	Lys	Val	Cys	Arg	Trp	Asp	Ser	Phe	Thr	Lys	Gln
			35				40					45			
Val	Gln	Arg	Val	Thr	Met	Asp	Ala	Pro	Val	Ser	Ser	Val	Ala	Leu	Arg
			50			55					60				
Gln	Ser	Gly	Gly	Tyr	Val	Ala	Thr	Ile	Gly	Thr	Lys	Phe	Cys	Ala	Leu
65				70					75					80	
Asn	Trp	Lys	Glu	Gln	Ser	Ala	Val	Val	Leu	Ala	Thr	Val	Asp	Asn	Asp
			85					90					95		
Lys	Lys	Asn	Asn	Arg	Phe	Asn	Asp	Gly	Lys	Val	Asp	Pro	Ala	Gly	Arg
			100					105					110		
Tyr	Phe	Ala	Gly	Thr	Met	Ala	Glu	Thr	Ala	Pro	Ala	Val	Leu	Glu	
			115				120					125			
Arg	His	Gln	Gly	Ala	Leu	Tyr	Ser	Leu	Phe	Pro	Asp	His	His	Val	Lys
			130				135					140			
Lys	Tyr	Phe	Asp	Gln	Val	Asp	Ile	Ser	Asn	Gly	Leu	Asp	Trp	Ser	Leu
145					150					155					160



Asp His Lys Ile Phe Tyr Tyr Ile Asp Ser Leu Ser Tyr Ser Val Asp  
 165 170 175  
 Ala Phe Asp Tyr Asp Leu Gln Thr Gly Gln Ile Ser Asn Arg Arg Ser  
 180 185 190  
 Val Tyr Lys Leu Glu Lys Glu Glu Gln Ile Pro Asp Gly Met Cys Ile  
 195 200 205  
 Asp Ala Glu Gly Lys Leu Trp Val Ala Cys Tyr Asn Gly Gly Arg Val  
 210 215 220  
 Ile Arg Leu Asp Pro Val Thr Gly Lys Arg Leu Gln Thr Val Lys Leu  
 225 230 235 240  
 Pro Val Asp Lys Thr Thr Ser Cys Cys Phe Gly Gly Lys Asn Tyr Ser  
 245 250 255  
 Glu Met Tyr Val Thr Cys Ala Arg Asp Gly Met Asp Pro Glu Gly Leu  
 260 265 270  
 Leu Arg Gln Pro Glu Ala Gly Gly Ile Phe Lys Ile Thr Gly Leu Gly  
 275 280 285  
 Val Lys Gly Ile Ala Pro Tyr Ser Tyr Ala Gly  
 290 295

<210> 807  
 <211> 1980  
 <212> DNA  
 <213> Homo Sapiens

<400> 807  
 atgccaaagta gtttgcgtgct agcaaccaga aaccaaattcc tgtctatgat gaactgttgg 60  
 ttttcttctg ctccaagaa cagacatgca gcagattgga acaaatatga tgaccgattg 120  
 atgaaagccg cggagagggg agatgtagaa aaagtctcct caatccttgc taaaaagggc 180  
 atcaatccag gcaactaga tgtggaaggc agatctgcct tccatgttgt ggcctcaaag 240  
 gggaatcttg aatgtttgaa tgccatcctt atacatggag ttgatattac aaccagtgcac 300  
 actgcaggaa gaaatgctct tcacttggct gcaaagtatg ggcattgcatt gtgtctacaa 360  
 aaacttctac agtacaattg tcccactgaa catgcagacc tgcagggaag aacgcactt 420  
 catgacgcag caatggcaga ctgtccttcc agcatacagc tgctttgtga ccatggggcc 480  
 tccgtgaatg ccaaagatgt ggatggggcg acaccgctgg ttctggctac tcagatgtgt 540  
 aggccagcaa tctgtcaact gctgatagat cgaggggcag agattaattc cagagacaaa 600  
 caaaacagaa ctgctctcat gcttggttgc gagtatggtt gtaaggatgc tgtagaagtc 660  
 ttacttaaaa atggtgctga tgtaagcctg ctggatgcct tgggcatga tagttcttac 720  
 tatgcaagaa ttggtgacaa tctggacatt ctaactttat tgaagactgc gtcagaaaat 780  
 accaacaag ggagagaact ttggaagaaa ggaccatctt tacagcagcg aaatttgccg 840  
 tacatgctag atgaagtaaa tgtgaagtca agtcagagg agcatcgaaa cattcaggag 900  
 ctggagattg aaaatgaaga tttgaaagac aggttgagaa aaattcagca agaacagaga 960  
 atattactgg ataaagtcaa tgggtttacaa ctacagctga atgaggaagt gatgggtgct 1020  
 gatgatctgg aaagtgagaa agaaaagctg aagtctcttt tgggtggctaa agaaaagcaa 1080  
 catgaagaaa gcctaagaac tattgagtct ctgaaaaaca gatttaaata ttttgagtgt 1140  
 acttccccag ggtgcccagc ccacatgcaa agcaggtcta tgtaaagacc actggagcta 1200  
 tcattacca atcaaacctc atattctgaa aatgacctct taaagaaaga gttagaagca 1260  
 atgagaactt tctgcgaatc agccaaacaa gaccgectca agctccagaa cggagtggcg 1320  
 cacaaggtgg ctgagtgcag agcttttagga ctagaatgtg aacgcatcaa ggaggactct 1380  
 gatgagcaga taaagcagtt agaagacgca ttgaaagatg tgcagaagag aatgtatgag 1440  
 tcggaaggta aagtaaaaca aatgcagaca cactttcttg ccttaaaga gcacctgacc 1500  
 agtgaagcag ctatagggaa tcacagacta atggaggagc tgaaggatca gttgaaggac 1560  
 atgaaagcga aatatgaggg tgcacagca gaagtgaggaa aactgcgaaa ccaaatcaaa 1620  
 caaatgagc tgctagtaga acagtttagg agagatgaag gcaagctggt ggaagagaat 1680  
 aagcgattgc agaaggaact cagtatgtgt gaaacggagc gagacaagaa aggaaggagg 1740  
 gttgctgagg tggaaggcca ggtaaaggaa ctcttagcaa agctgacctt gtcagttcca 1800

actgaaaaat ttgagagcat gaagagctta ttatcaagcg aagtaaatga gaagggtgaaa 1860  
 aaaattggag agacagaaaag agagtatgaa aaatcactta ctgaaatcag acagttaagg 1920  
 agagagcttg agaattgtaa gcgccaaact tcctcagcat gtcaagccag aggagcatga 1980

<210> 808  
 <211> 659  
 <212> PRT  
 <213> Homo Sapiens

<400> 808  
 Met Pro Ser Ser Leu Leu Leu Ala Thr Arg Asn Gln Ile Leu Ser Met  
 1 5 10 15  
 Met Asn Cys Trp Phe Ser Cys Ala Pro Lys Asn Arg His Ala Ala Asp  
 20 25 30  
 Trp Asn Lys Tyr Asp Asp Arg Leu Met Lys Ala Ala Glu Arg Gly Asp  
 35 40 45  
 Val Glu Lys Val Ser Ser Ile Leu Ala Lys Lys Gly Ile Asn Pro Gly  
 50 55 60  
 Lys Leu Asp Val Glu Gly Arg Ser Ala Phe His Val Val Ala Ser Lys  
 65 70 75 80  
 Gly Asn Leu Glu Cys Leu Asn Ala Ile Leu Ile His Gly Val Asp Ile  
 85 90 95  
 Thr Thr Ser Asp Thr Ala Gly Arg Asn Ala Leu His Leu Ala Ala Lys  
 100 105 110  
 Tyr Gly His Ala Leu Cys Leu Gln Lys Leu Leu Gln Tyr Asn Cys Pro  
 115 120 125  
 Thr Glu His Ala Asp Leu Gln Gly Arg Thr Ala Leu His Asp Ala Ala  
 130 135 140  
 Met Ala Asp Cys Pro Ser Ser Ile Gln Leu Leu Cys Asp His Gly Ala  
 145 150 155 160  
 Ser Val Asn Ala Lys Asp Val Asp Gly Arg Thr Pro Leu Val Leu Ala  
 165 170 175  
 Thr Gln Met Cys Arg Pro Ala Ile Cys Gln Leu Leu Ile Asp Arg Gly  
 180 185 190  
 Ala Glu Ile Asn Ser Arg Asp Lys Gln Asn Arg Thr Ala Leu Met Leu  
 195 200 205  
 Gly Cys Glu Tyr Gly Cys Lys Asp Ala Val Glu Val Leu Leu Lys Asn  
 210 215 220  
 Gly Ala Asp Val Ser Leu Leu Asp Ala Leu Gly His Asp Ser Ser Tyr  
 225 230 235 240  
 Tyr Ala Arg Ile Gly Asp Asn Leu Asp Ile Leu Thr Leu Leu Lys Thr  
 245 250 255  
 Ala Ser Glu Asn Thr Asn Lys Gly Arg Glu Leu Trp Lys Lys Gly Pro  
 260 265 270  
 Ser Leu Gln Gln Arg Asn Leu Pro Tyr Met Leu Asp Glu Val Asn Val  
 275 280 285  
 Lys Ser Ser Gln Arg Glu His Arg Asn Ile Gln Glu Leu Glu Ile Glu  
 290 295 300  
 Asn Glu Asp Leu Lys Asp Arg Leu Arg Lys Ile Gln Gln Glu Gln Arg  
 305 310 315 320  
 Ile Leu Leu Asp Lys Val Asn Gly Leu Gln Leu Gln Leu Asn Glu Glu  
 325 330 335  
 Val Met Val Ala Asp Asp Leu Glu Ser Glu Lys Glu Lys Leu Lys Ser  
 340 345 350  
 Leu Leu Val Ala Lys Glu Lys Gln His Glu Glu Ser Leu Arg Thr Ile

355 360 365  
 Glu Ser Leu Lys Asn Arg Phe Lys Tyr Phe Glu Cys Thr Ser Pro Gly  
 370 375 380  
 Val Pro Ala His Met Gln Ser Arg Ser Met Leu Arg Pro Leu Glu Leu  
 385 390 395 400  
 Ser Leu Pro Asn Gln Thr Ser Tyr Ser Glu Asn Asp Leu Leu Lys Lys  
 405 410 415  
 Glu Leu Glu Ala Met Arg Thr Phe Cys Glu Ser Ala Lys Gln Asp Arg  
 420 425 430  
 Leu Lys Leu Gln Asn Gly Val Ala His Lys Val Ala Glu Cys Lys Ala  
 435 440 445  
 Leu Gly Leu Glu Cys Glu Arg Ile Lys Glu Asp Ser Asp Glu Gln Ile  
 450 455 460  
 Lys Gln Leu Glu Asp Ala Leu Lys Asp Val Gln Lys Arg Met Tyr Glu  
 465 470 475 480  
 Ser Glu Gly Lys Val Lys Gln Met Gln Thr His Phe Leu Ala Leu Lys  
 485 490 495  
 Glu His Leu Thr Ser Glu Ala Ala Ile Gly Asn His Arg Leu Met Glu  
 500 505 510  
 Glu Leu Lys Asp Gln Leu Lys Asp Met Lys Ala Lys Tyr Glu Gly Ala  
 515 520 525  
 Ser Ala Glu Val Gly Lys Leu Arg Asn Gln Ile Lys Gln Asn Glu Leu  
 530 535 540  
 Leu Val Glu Gln Phe Arg Arg Asp Glu Gly Lys Leu Val Glu Glu Asn  
 545 550 555 560  
 Lys Arg Leu Gln Lys Glu Leu Ser Met Cys Glu Thr Glu Arg Asp Lys  
 565 570 575  
 Lys Gly Arg Arg Val Ala Glu Val Glu Gly Gln Val Lys Glu Leu Leu  
 580 585 590  
 Ala Lys Leu Thr Leu Ser Val Pro Thr Glu Lys Phe Glu Ser Met Lys  
 595 600 605  
 Ser Leu Leu Ser Ser Glu Val Asn Glu Lys Val Lys Lys Ile Gly Glu  
 610 615 620  
 Thr Glu Arg Glu Tyr Glu Lys Ser Leu Thr Glu Ile Arg Gln Leu Arg  
 625 630 635 640  
 Arg Glu Leu Glu Asn Cys Lys Arg Gln Thr Ser Ser Ala Cys Gln Ala  
 645 650 655  
 Arg Gly Ala

&lt;210&gt; 809

&lt;211&gt; 1725

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 809

```

tttctttggt aagtcgttcc ctctacaaag gacttcctag tgggtgtgaa aggcagcggg      60
ggccacagag gcggcggaga gatggccttc agcgggttccc aggtcccta cctgagtcca      120
gctgtcccct tttctgggac tattcaagga ggtctccagg acggacttca gatcactgtc      180
aatgggaccg ttctcagctc cagtgaacc aggtttgctg tgaactttca gactggcttc      240
agtggaaatg acattgcctt ccacttcaac cctcggtttg aagatggagg gtacgtgggtg      300
tgcaaacacga ggcagaacgg aagctggggg cccgaggaga ggaagacaca catgcctttc      360
cagaagggga tgccctttga cctctgcttc ctggtgcaga gctcagattt caaggtgatg      420
gtgaacggga tcctcttcgt gcagtacttc caccgcgtgc ccttcaccg tgtggacacc      480
atctccgtca atggctctgt gcagctgtcc tacatcagct tccagaaccc ccgcacagtc      540

```

```

cctgttcagc ctgccttctc caccgtgccc ttctcccagc ctgtctgttt cccaccagc 600
cccagggggc gcagacaaaa acctcccggc gtgtggcctg ccaaccggc tcccattacc 660
cagacagtca tccacacagt gcagagcgcc cctggacaga tgttctctac tcccgccatc 720
ccacctatga tgtaccccca ccccgccctat ccgatgcctt tcatcaccac cattctggga 780
gggtgtgacc catecaagtc catcctcctg tcaggcactg tcctgccag tgctcagagg 840
ttccacatca acctgtgctc tgggaaccac atcgcccttc acctgaacc ccgttttgat 900
gagaatgctg tgggtccgaa caccagatc gacaactcct ggggggtctga ggagcgaagt 960
ctgccccgaa aaatgccctt cgtccgtggc cagagcttct cagtgtggat cttgtgtgaa 1020
gtcactgcc tcaaggtggc cgtggatggc cagcacctgt ttgaatacta ccatcgccctg 1080
aggaacctgc ccaccatcaa cagactggaa gtggggggcg acatccagct gacctatgtg 1140
cagacatagg cggcttctcgc gccctggggc cgggggctgg ggtgtggggc agtctgggtc 1200
ctctcatcat cccacttcc caggcccagc ctttccaacc ctgcctggga tctgggcttt 1260
aatgcagagg ccatgtcctt gtctggtcct gcttctggct acagccacc tggaacggag 1320
aaggcagctg acggggattg ccttcctcag ccgcagcagc acctggggct ccagctgctg 1380
gaatcctacc atcccaggag gcaggcacag ccaggggagag gggaggagtg ggagtgaa 1440
atgaagcccc atgctcagtc ccctcccatc cccacgcag ctccacccca gtcccaagcc 1500
accagctgtc tgcctcgtgt gggaggtggc ctctcagcc cctcctctct gacctttaac 1560
ctcactctca ccttgaccg tgcaccaacc cttcaccct cctggaaagc aggctgatg 1620
gcttcccact ggcctccacc acctgaccag agtgttctct tcagaggact ggctcctttc 1680
ccagtgtcct taaaataaag aaatgaaaat gcttgttggc acatt 1725

```

&lt;210&gt; 810

&lt;211&gt; 355

&lt;212&gt; PRT

&lt;213&gt; Homo Sapiens

&lt;400&gt; 810

```

Met Ala Phe Ser Gly Ser Gln Ala Pro Tyr Leu Ser Pro Ala Val Pro
1          5          10          15
Phe Ser Gly Thr Ile Gln Gly Gly Leu Gln Asp Gly Leu Gln Ile Thr
20          25          30
Val Asn Gly Thr Val Leu Ser Ser Ser Gly Thr Arg Phe Ala Val Asn
35          40          45
Phe Gln Thr Gly Phe Ser Gly Asn Asp Ile Ala Phe His Phe Asn Pro
50          55          60
Arg Phe Glu Asp Gly Gly Tyr Val Val Cys Asn Thr Arg Gln Asn Gly
65          70          75          80
Ser Trp Gly Pro Glu Arg Lys Thr His Met Pro Phe Gln Lys Gly
85          90          95
Met Pro Phe Asp Leu Cys Phe Leu Val Gln Ser Ser Asp Phe Lys Val
100         105         110
Met Val Asn Gly Ile Leu Phe Val Gln Tyr Phe His Arg Val Pro Phe
115         120         125
His Arg Val Asp Thr Ile Ser Val Asn Gly Ser Val Gln Leu Ser Tyr
130         135         140
Ile Ser Phe Gln Asn Pro Arg Thr Val Pro Val Gln Pro Ala Phe Ser
145         150         155         160
Thr Val Pro Phe Ser Gln Pro Val Cys Phe Pro Pro Arg Pro Arg Gly
165         170         175
Arg Arg Gln Lys Pro Pro Gly Val Trp Pro Ala Asn Pro Ala Pro Ile
180         185         190
Thr Gln Thr Val Ile His Thr Val Gln Ser Ala Pro Gly Gln Met Phe
195         200         205
Ser Thr Pro Ala Ile Pro Pro Met Met Tyr Pro His Pro Ala Tyr Pro
210         215         220

```

Met Pro Phe Ile Thr Thr Ile Leu Gly Gly Leu Tyr Pro Ser Lys Ser  
 225 230 235 240  
 Ile Leu Leu Ser Gly Thr Val Leu Pro Ser Ala Gln Arg Phe His Ile  
 245 250 255  
 Asn Leu Cys Ser Gly Asn His Ile Ala Phe His Leu Asn Pro Arg Phe  
 260 265 270  
 Asp Glu Asn Ala Val Val Arg Asn Thr Gln Ile Asp Asn Ser Trp Gly  
 275 280 285  
 Ser Glu Glu Arg Ser Leu Pro Arg Lys Met Pro Phe Val Arg Gly Gln  
 290 295 300  
 Ser Phe Ser Val Trp Ile Leu Cys Glu Ala His Cys Leu Lys Val Ala  
 305 310 315 320  
 Val Asp Gly Gln His Leu Phe Glu Tyr Tyr His Arg Leu Arg Asn Leu  
 325 330 335  
 Pro Thr Ile Asn Arg Leu Glu Val Gly Gly Asp Ile Gln Leu Thr His  
 340 345 350  
 Val Gln Thr  
 355

<210> 811  
 <211> 1022  
 <212> DNA  
 <213> Homo Sapiens

<400> 811  
 gcctgtgggt ctccattgcc cagcttttgc ctgcactctt gcctgctgcc ctgaccagag 60  
 tcatcatgtc tcttgagcag aagagtcagc actgcaagcc tgaggaaggc gttgaggccc 120  
 aagaagaggc cctgggcctg gtgggtgcac aggcctctac tactgaggag caggaggctg 180  
 ctgtctcttc ctccctctct ctggctcctg gcaccttgga gaaagtgcct gctgctgagt 240  
 cagcagatcc tccccagagt cctcaggag cctctgcctt acccactacc atcagcttca 300  
 cttgctggag gcaacccaat gagggttcca gcagccaaga agaggaggag gccagcacct 360  
 cgctgacgc agagtccttg ttccgagaag cactcagtaa caaggtggat gagttggctc 420  
 attttctgct ccgcaagtat cgagccaagg agctggtcac aaaggcagaa atgctggaga 480  
 gagtcatcaa aaattacaag cgctgctttc ctgtgatctt cggcaaagcc tccgagtccc 540  
 tgaagatgat ctttggcatt gacgtgaagg aagtggacct cgccagcaac acctacacct 600  
 ttgtcacctg cctgggcctt tcctatgatg gcctgctggg taataatcag atctttccca 660  
 agacaggcct cctgataatc gtcctgggca caattgcaat ggaggggcag agcgccctctg 720  
 aggaggaaat ctgggaggag ctgggtgtga tgggggtgta tgatgggagg gagcacactg 780  
 tctatgggga gccaggaaa ctgctcacc cagattgggt gcaggaaaac tacctggagt 840  
 accggcaggt accggcagc aatcctgcgc gctatgagtt cctgtggggt ccaagggtc 900  
 tggctgaaac cagctatgtg aaagtcctgg agcatgtggt cagggtcaat gcaagagttc 960  
 gcattgccta cccatccctg cgtgaagcag ctttgttaga ggaggaagag ggagtctgag 1020  
 ca 1022

<210> 812  
 <211> 317  
 <212> PRT  
 <213> Homo Sapiens

<400> 812  
 Met Ser Leu Glu Gln Lys Ser Gln His Cys Lys Pro Glu Glu Gly Val  
 1 5 10 15  
 Glu Ala Gln Glu Glu Ala Leu Gly Leu Val Gly Ala Gln Ala Pro Thr  
 20 25 30  
 Thr Glu Glu Gln Glu Ala Ala Val Ser Ser Ser Ser Pro Leu Val Leu

35	40	45
Gly Thr Leu Glu Lys Val Pro Ala Ala Glu Ser Ala Asp Pro Pro Gln		
50	55	60
Ser Pro Gln Gly Ala Ser Ala Leu Pro Thr Thr Ile Ser Phe Thr Cys		
65	70	75
Trp Arg Gln Pro Asn Glu Gly Ser Ser Ser Gln Glu Glu Glu Glu Ala		
85	90	95
Ser Thr Ser Pro Asp Ala Glu Ser Leu Phe Arg Glu Ala Leu Ser Asn		
100	105	110
Lys Val Asp Glu Leu Ala His Phe Leu Leu Arg Lys Tyr Arg Ala Lys		
115	120	125
Glu Leu Val Thr Lys Ala Glu Met Leu Glu Arg Val Ile Lys Asn Tyr		
130	135	140
Lys Arg Cys Phe Pro Val Ile Phe Gly Lys Ala Ser Glu Ser Leu Lys		
145	150	155
Met Ile Phe Gly Ile Asp Val Lys Glu Val Asp Pro Ala Ser Asn Thr		
165	170	175
Tyr Thr Leu Val Thr Cys Leu Gly Leu Ser Tyr Asp Gly Leu Leu Gly		
180	185	190
Asn Asn Gln Ile Phe Pro Lys Thr Gly Leu Leu Ile Ile Val Leu Gly		
195	200	205
Thr Ile Ala Met Glu Gly Asp Ser Ala Ser Glu Glu Glu Ile Trp Glu		
210	215	220
Glu Leu Gly Val Met Gly Val Tyr Asp Gly Arg Glu His Thr Val Tyr		
225	230	235
Gly Glu Pro Arg Lys Leu Leu Thr Gln Asp Trp Val Gln Glu Asn Tyr		
245	250	255
Leu Glu Tyr Arg Gln Val Pro Gly Ser Asn Pro Ala Arg Tyr Glu Phe		
260	265	270
Leu Trp Gly Pro Arg Ala Leu Ala Glu Thr Ser Tyr Val Lys Val Leu		
275	280	285
Glu His Val Val Arg Val Asn Ala Arg Val Arg Ile Ala Tyr Pro Ser		
290	295	300
Leu Arg Glu Ala Ala Leu Leu Glu Glu Glu Glu Gly Val		
305	310	315

&lt;210&gt; 813

&lt;211&gt; 5175

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 813

gctgctgctg cagtgggaca ggtggcgggcg accggcgggcg tccgaggaga tttaatccag	60
agactgactt cactatagaa cccacagttg tatcaatggt tggggaaaaga tagtggcaac	120
aggcaaagga gaaacagctc tgacatacaa agaaaatgag tatgctaaag ccaagtgggc	180
ttaaggcccc caccaagatc ctgaagcctg gaagcacagc tctgaagaca cctacggctg	240
ttgtagctcc agtagaaaaa accatatcca gtgaaaaagc atcaagcact ccatcatctg	300
agactcagga ggaatttgtg gatgactttc gagttgggga gcgagtttgg gtgaatggaa	360
ataagcctgg atttatccag tttcttggag aaaccagtt tgcaccaggc cagtgggctg	420
gaattgtttt agatgaaccc ataggcaaga acgatgggtc ggtggcagga gttcgggtatt	480
tccagtgtga acctttaaag ggcataattt cccgaccttc aaagttaaca aggaagggtgc	540
aagcagaaga tgaagctaag ggcctgcaga caacgccgc ctcccagct acttcaccgc	600
tgtgcacttc tacggccagc atgggtgtctt cctccccctc cacccttca aacatccctc	660
agaaaccatc acagccagca gcaaaggaac cttcagctac gctccgac agcaacctta	720
caaaaactgc cagtgaatct atctccaacc tttcagaggc tggctcaatc aagaaaggag	780

aaagagagct	caaaatcgga	gacagagtat	tgggtggtgg	cactaaggct	ggtgtagtcc	840
ggtttcttgg	ggagaccgac	tttgccaagg	gggagtgggtg	tggcgtggag	ttagatgagc	900
cacttgggaa	gaatgatggc	gctgttgctg	gaacaaggta	ttttcagtgt	caacccaaat	960
atggcttggt	cgctcctgtc	cacaaagtta	ccaagattgg	cttcccttcc	actacaccag	1020
ccaaagccaa	ggccaacgca	gtgaggcgag	tgatggcgac	cacgtccgcc	agcctgaagc	1080
gcagcccttc	tgctcttctc	ctcagctcca	tgagctcagt	ggcctcctct	gtgagcagca	1140
ggcccagtcg	gacaggacta	ttgactgaaa	cctcctcccg	ttacgccagg	aagatctccg	1200
gtaccactgc	cctccaggag	gccctgaagg	agaagcagca	gcacattgag	cagctgctgg	1260
cggaaacggg	tctggagagg	gctggaggtg	ccaaggccac	gagccacgtg	ggggagatag	1320
agcaggagct	agctctggcc	cgggacggac	atgaccagca	tgctcctggaa	ttggaagcca	1380
aaatggacca	gctgcgaaca	atgggtggaag	ctgctgacag	ggagaagggtg	gagcttctca	1440
accagcttga	agaggagaaa	aggaagggtg	aggaccttca	gttccggggt	gaagaagaat	1500
caattaccaa	aggtgatctt	gaggtggcta	cagtttcaga	aaagtcacgt	ataatggaac	1560
tggagaaga	cctagcattg	agagtacagg	aagtagctga	gctccgaaga	aggctagagt	1620
ccaataagcc	tgctggggat	gtggacatgt	cactttccct	tttgcaagag	ataagctctt	1680
tgcaagaaaa	gttagaagtc	accggtactg	accaccagag	agaaataact	tctctgaagg	1740
agcatttttg	agcccgggaa	gaaactcatc	agaaggagat	aaaggctctg	tataccgcca	1800
cggaaaagct	ttccaaagag	aacgagtcac	tgaagagcaa	gctggagcat	gccaacaaag	1860
agaactcaga	tgtagatagc	ctatggaagt	ccaaactgga	gactgccatc	gcatccacc	1920
agcaggcgat	ggagaactg	aaggtatctt	tcagcaaagg	gcttggaaca	gagacggcag	1980
aatttgctga	actaaaaaca	caaatagaga	aaatgagact	agattaccaa	cacgaaatag	2040
aaaatttgca	gaatcaacaa	gactctgaac	gggctgcccc	tgctaaagag	atggaagcct	2100
tgagggctaa	actgatgaaa	gttattaaag	aaaaggaaaa	cagtctggaa	gccatcaggt	2160
cgaaactgga	caaagcagaa	gaccagcatc	tcgtagaaat	ggaagacacg	ttaaacaaat	2220
tacagggaagc	tgaataaag	gtaaaggagc	tagaggtact	gcaagccaaa	tgcaatgaac	2280
aaaccaaggt	tattgataat	tttacatcac	agctcaaggc	tactgaagaa	aagctcttgg	2340
atcttgatgc	acttcggaaa	gccagttccg	aaggtaaatc	ggaaatgaag	aaacttagac	2400
agcagcttga	ggcagctgag	aaacagatta	aacatttaga	gattgaaaag	aatgctgaaa	2460
gtagcaaggc	tagtagcatt	accagagagc	tccaggggag	agagctaaag	cttactaacc	2520
ttcaggaaaa	tttaggtgaa	gtcagtcaag	tgaagagac	tttggaaaaa	gaacttcaga	2580
ttttgaaaga	aaagtttgct	gaagcttcag	aggaggcagt	ctctgttcag	agaagtatgc	2640
aagaaactgt	aaataagtta	caccaaaagg	aggaacagtt	taacatgctg	tcttctgact	2700
tggagaagct	gagagaaaaac	ttagcagata	tggaggcaaa	atttagagag	aaagatgaga	2760
gagaagagca	gctgataaag	gcaaaggaaa	aactggaaaa	tgacattgca	gaaataatga	2820
agatgtcagg	agataactct	tctcagctga	caaaaatgaa	cgatgaatta	cgtctgaaag	2880
aaagagatgt	agaagaatta	cagctaaaaac	ttacaaaggc	taatgaaaat	gcaagttttc	2940
tgcaaaaaag	tattgaggac	atgactgtca	aagctgaaca	gagccagcaa	gaagcagcta	3000
aaaagcatga	ggaagaaaag	aaagaatttg	agaggaaatt	gtcggacctg	gaaaagaaaa	3060
tggaaacaag	ccacaaccag	tgtcaggagc	tgaagccag	gtatgagaga	gccacttctg	3120
agacaaaaac	caagcatgaa	gaaatcctac	agaacctcca	gaagacgctg	ctggacacag	3180
aggacaagct	gaagggcgca	cgggaggaga	acagtggctt	gctgcaggag	ctggaggagc	3240
tgagaaaagca	agccgagaaa	gccaaagctg	ctcaaacagc	ggaagatgcc	atgcagataa	3300
tggaaacagat	gaccaaaagag	aagactgaga	ctctggcctc	cttggaggac	accaagcaaa	3360
caaatgcaaa	actacagaat	gaattggaca	cacttaaaga	aaacaacttg	aaaaatgtgg	3420
aagagctgaa	caaatcaaaa	gaactcctga	ctgtagagaa	tcaaaaaatg	gaagaattta	3480
ggaaagaaat	agaaacccta	aagcaggcag	cagctcagaa	gtcccagcag	ctttcagcgt	3540
tgcaagaaga	gaacgttaaa	cttgctgagg	agctggggag	aagcagggac	gaagtcacaa	3600
gtcatcaaaa	gctggaagaa	gaaagatctg	tgctcaataa	tcagttgtta	gaaatgaaaa	3660
aaagagaatc	caagttcata	aaagacgcag	atgaagagaa	agcttccttg	cagaaatcca	3720
tcagtataac	tagtgccctta	ctcacagaaa	aggatgccga	gctggagaaa	ctgagaaatg	3780
aggtcacagt	gctcagggga	gaaaacgcct	gtcccaagtc	cttgcatcca	gttggttcaga	3840
ctctagagtc	tgataagggtg	aagctcgagc	tcaaggtaaa	gaacttgagg	cttcaactca	3900
aagaaaacaa	gaggcagctc	agcagctcct	caggtataac	agacactcag	gcagacgagg	3960
atgaaagagc	ccaggagagt	cagattgatt	tcctaaattc	agtaatagtg	gaccttcaaa	4020
ggaagaatca	agacctcaag	atgaagggtg	agatgatgtc	agaagcagcc	ctgaatggga	4080

```

acgggggatga cctaaacaat tatgacagtg atgatcagga gaaacagtcc aagaagaaac 4140
ctgcctcttt ctgtgacatt tgtgactgct ttgatctcca cgacacagag gattgtccta 4200
cccaggcaca gatgtcagag gacctcccc attccacaca ccatggcagt cggggtgagg 4260
aacgccata ctgtgaaatc tgtgagatgt ttggacactg ggccaccaac tgcaatgacg 4320
acgaaacctt ctgatgaagc ctccagtgga gaactgggct tgctcagacg cactcgcatt 4380
gacacaacgt aacaccagca ttgtgtgtgc agacttcagg agaactcatg ttatttttta 4440
accccgtaaa caaatctagg aaaatatattt gatcttcaac aaattgccct ttagtctccc 4500
cgtatgagtt agaataataa atatttagta ggtgagcttt tcacctcgaa ttttgttttc 4560
ttgattttta cgtttgaaga cattgcacca gatgcsatta catttatagg cccccgacc 4620
ttgtagaaaa acccctaccc tcacaatacc ttattttaagt aactttaaat tatgccgtta 4680
cttttcatat ttgcactaag atatttccag gctgcatttg tatatttaga ttttttggtt 4740
aagctttgac actggaatga gttgaaaaaa tgtgccattt tgcattttca tctactcatt 4800
taaagtattt tattcttatt caaagaaata tctgagctct ttgcactacc tgttatcagt 4860
agtgccttta cttcaggctt gataatactt aggtgtgatt ataaaatcat gaagcaggta 4920
aaggaggagg caagccccca aactgctgtg gggacatttt ataacttata tgcctgcacc 4980
acttaatacta ctgtggtgtt ttgtttatta gttttgcata atttcagctt ctatatattg 5040
tatgtatata ttttttaaaa atctatattt tgggaaaaaa acatacacia tgtgtctttc 5100
tttttggaac tttacctttt tgaaaaagaa aacacttaaa atgatcatta ggacataaca 5160
gactagggaa ttccg 5175

```

&lt;210&gt; 814

&lt;211&gt; 1392

&lt;212&gt; PRT

&lt;213&gt; Homo Sapiens

&lt;400&gt; 814

```

Met Ser Met Leu Lys Pro Ser Gly Leu Lys Ala Pro Thr Lys Ile Leu
 1          5          10          15
Lys Pro Gly Ser Thr Ala Leu Lys Thr Pro Thr Ala Val Val Ala Pro
 20          25          30
Val Glu Lys Thr Ile Ser Ser Glu Lys Ala Ser Ser Thr Pro Ser Ser
 35          40          45
Glu Thr Gln Glu Glu Phe Val Asp Asp Phe Arg Val Gly Glu Arg Val
 50          55          60
Trp Val Asn Gly Asn Lys Pro Gly Phe Ile Gln Phe Leu Gly Glu Thr
 65          70          75          80
Gln Phe Ala Pro Gly Gln Trp Ala Gly Ile Val Leu Asp Glu Pro Ile
 85          90          95
Gly Lys Asn Asp Gly Ser Val Ala Gly Val Arg Tyr Phe Gln Cys Glu
100          105          110
Pro Leu Lys Gly Ile Phe Thr Arg Pro Ser Lys Leu Thr Arg Lys Val
115          120          125
Gln Ala Glu Asp Glu Ala Asn Gly Leu Gln Thr Thr Pro Ala Ser Arg
130          135          140
Ala Thr Ser Pro Leu Cys Thr Ser Thr Ala Ser Met Val Ser Ser Ser
145          150          155          160
Pro Ser Thr Pro Ser Asn Ile Pro Gln Lys Pro Ser Gln Pro Ala Ala
165          170          175
Lys Glu Pro Ser Ala Thr Pro Pro Ile Ser Asn Leu Thr Lys Thr Ala
180          185          190
Ser Glu Ser Ile Ser Asn Leu Ser Glu Ala Gly Ser Ile Lys Lys Gly
195          200          205
Glu Arg Glu Leu Lys Ile Gly Asp Arg Val Leu Val Gly Gly Thr Lys

```



210	215	220
Ala Gly Val Val Arg Phe	Leu Gly Glu Thr Asp Phe	Ala Lys Gly Glu
225	230	235
Trp Cys Gly Val Glu Leu	Asp Glu Pro Leu Gly Lys	Asn Asp Gly Ala
245	250	255
Val Ala Gly Thr Arg Tyr	Phe Gln Cys Gln Pro Lys	Tyr Gly Leu Phe
260	265	270
Ala Pro Val His Lys Val	Thr Lys Ile Gly Phe Pro	Ser Thr Thr Pro
275	280	285
Ala Lys Ala Lys Ala Asn	Ala Val Arg Arg Val Met	Ala Thr Thr Ser
290	295	300
Ala Ser Leu Lys Arg Ser	Pro Ser Ala Ser Ser Leu	Ser Ser Met Ser
305	310	315
Ser Val Ala Ser Ser Val	Ser Ser Arg Pro Ser Arg	Thr Gly Leu Leu
325	330	335
Thr Glu Thr Ser Ser Arg	Tyr Ala Arg Lys Ile Ser	Gly Thr Thr Ala
340	345	350
Leu Gln Glu Ala Leu Lys	Glu Lys Gln Gln His Ile	Glu Gln Leu Leu
355	360	365
Ala Glu Arg Asp Leu Glu	Arg Ala Glu Val Ala Lys	Ala Thr Ser His
370	375	380
Val Gly Glu Ile Glu Gln	Glu Leu Ala Leu Ala Arg	Asp Gly His Asp
385	390	395
Gln His Val Leu Glu Leu	Glu Ala Lys Met Asp Gln	Leu Arg Thr Met
405	410	415
Val Glu Ala Ala Asp Arg	Glu Lys Val Glu Leu Leu	Asn Gln Leu Glu
420	425	430
Glu Glu Lys Arg Lys Val	Glu Asp Leu Gln Phe Arg	Val Glu Glu Glu
435	440	445
Ser Ile Thr Lys Gly Asp	Leu Glu Val Ala Thr Val	Ser Glu Lys Ser
450	455	460
Arg Ile Met Glu Leu Glu	Lys Asp Leu Ala Leu Arg	Val Gln Glu Val
465	470	475
Ala Glu Leu Arg Arg Arg	Leu Glu Ser Asn Lys Pro	Ala Gly Asp Val
485	490	495
Asp Met Ser Leu Ser Leu	Leu Gln Glu Ile Ser Ser	Leu Gln Glu Lys
500	505	510
Leu Glu Val Thr Arg Thr	Asp His Gln Arg Glu Ile	Thr Ser Leu Lys
515	520	525
Glu His Phe Gly Ala Arg	Glu Glu Thr His Gln Lys	Glu Ile Lys Ala
530	535	540
Leu Tyr Thr Ala Thr Glu	Lys Leu Ser Lys Glu Asn	Glu Ser Leu Lys
545	550	555
Ser Lys Leu Glu His Ala	Asn Lys Glu Asn Ser Asp	Val Ile Ala Leu
565	570	575
Trp Lys Ser Lys Leu Glu	Thr Ala Ile Ala Ser His	Gln Gln Ala Met
580	585	590
Glu Glu Leu Lys Val Ser	Phe Ser Lys Gly Leu Gly	Thr Glu Thr Ala
595	600	605
Glu Phe Ala Glu Leu Lys	Thr Gln Ile Glu Lys Met	Arg Leu Asp Tyr
610	615	620
Gln His Glu Ile Glu Asn	Leu Gln Asn Gln Gln Asp	Ser Glu Arg Ala
625	630	635
Ala His Ala Lys Glu Met	Glu Ala Leu Arg Ala Lys	Leu Met Lys Val
645	650	655

```

Ile Lys Glu Lys Glu Asn Ser Leu Glu Ala Ile Arg Ser Lys Leu Asp
      660                      665                      670
Lys Ala Glu Asp Gln His Leu Val Glu Met Glu Asp Thr Leu Asn Lys
      675                      680                      685
Leu Gln Glu Ala Glu Ile Lys Val Lys Glu Leu Glu Val Leu Gln Ala
      690                      695                      700
Lys Cys Asn Glu Gln Thr Lys Val Ile Asp Asn Phe Thr Ser Gln Leu
      705                      710                      715                      720
Lys Ala Thr Glu Glu Lys Leu Leu Asp Leu Asp Ala Leu Arg Lys Ala
      725                      730                      735
Ser Ser Glu Gly Lys Ser Glu Met Lys Lys Leu Arg Gln Gln Leu Glu
      740                      745                      750
Ala Ala Glu Lys Gln Ile Lys His Leu Glu Ile Glu Lys Asn Ala Glu
      755                      760                      765
Ser Ser Lys Ala Ser Ser Ile Thr Arg Glu Leu Gln Gly Arg Glu Leu
      770                      775                      780
Lys Leu Thr Asn Leu Gln Glu Asn Leu Ser Glu Val Ser Gln Val Lys
      785                      790                      795                      800
Glu Thr Leu Glu Lys Glu Leu Gln Ile Leu Lys Glu Lys Phe Ala Glu
      805                      810                      815
Ala Ser Glu Glu Ala Val Ser Val Gln Arg Ser Met Gln Glu Thr Val
      820                      825                      830
Asn Lys Leu His Gln Lys Glu Glu Gln Phe Asn Met Leu Ser Ser Asp
      835                      840                      845
Leu Glu Lys Leu Arg Glu Asn Leu Ala Asp Met Glu Ala Lys Phe Arg
      850                      855                      860
Glu Lys Asp Glu Arg Glu Glu Gln Leu Ile Lys Ala Lys Glu Lys Leu
      865                      870                      875                      880
Glu Asn Asp Ile Ala Glu Ile Met Lys Met Ser Gly Asp Asn Ser Ser
      885                      890                      895
Gln Leu Thr Lys Met Asn Asp Glu Leu Arg Leu Lys Glu Arg Asp Val
      900                      905                      910
Glu Glu Leu Gln Leu Lys Leu Thr Lys Ala Asn Glu Asn Ala Ser Phe
      915                      920                      925
Leu Gln Lys Ser Ile Glu Asp Met Thr Val Lys Ala Glu Gln Ser Gln
      930                      935                      940
Gln Glu Ala Ala Lys Lys His Glu Glu Glu Lys Lys Glu Leu Glu Arg
      945                      950                      955                      960
Lys Leu Ser Asp Leu Glu Lys Lys Met Glu Thr Ser His Asn Gln Cys
      965                      970                      975
Gln Glu Leu Lys Ala Arg Tyr Glu Arg Ala Thr Ser Glu Thr Lys Thr
      980                      985                      990
Lys His Glu Glu Ile Leu Gln Asn Leu Gln Lys Thr Leu Leu Asp Thr
      995                      1000                      1005
Glu Asp Lys Leu Lys Gly Ala Arg Glu Glu Asn Ser Gly Leu Leu Gln
      1010                      1015                      1020
Glu Leu Glu Glu Leu Arg Lys Gln Ala Glu Lys Ala Lys Ala Ala Gln
      1025                      1030                      1035                      104
Thr Ala Glu Asp Ala Met Gln Ile Met Glu Gln Met Thr Lys Glu Lys
      1045                      1050                      1055
Thr Glu Thr Leu Ala Ser Leu Glu Asp Thr Lys Gln Thr Asn Ala Lys
      1060                      1065                      1070
Leu Gln Asn Glu Leu Asp Thr Leu Lys Glu Asn Asn Leu Lys Asn Val
      1075                      1080                      1085
Glu Glu Leu Asn Lys Ser Lys Glu Leu Leu Thr Val Glu Asn Gln Lys

```

1090	1095	1100
Met Glu Glu Phe Arg Lys Glu Ile Glu Thr Leu Lys Gln Ala Ala Ala		
1105	1110	1115
Gln Lys Ser Gln Gln Leu Ser Ala Leu Gln Glu Asn Val Lys Leu		
1125	1130	1135
Ala Glu Glu Leu Gly Arg Ser Arg Asp Glu Val Thr Ser His Gln Lys		
1140	1145	1150
Leu Glu Glu Glu Arg Ser Val Leu Asn Asn Gln Leu Leu Glu Met Lys		
1155	1160	1165
Lys Arg Glu Ser Lys Phe Ile Lys Asp Ala Asp Glu Glu Lys Ala Ser		
1170	1175	1180
Leu Gln Lys Ser Ile Ser Ile Thr Ser Ala Leu Leu Thr Glu Lys Asp		
1185	1190	1195
Ala Glu Leu Glu Lys Leu Arg Asn Glu Val Thr Val Leu Arg Gly Glu		
1205	1210	1215
Asn Ala Ser Ala Lys Ser Leu His Ser Val Val Gln Thr Leu Glu Ser		
1220	1225	1230
Asp Lys Val Lys Leu Glu Leu Lys Val Lys Asn Leu Glu Leu Gln Leu		
1235	1240	1245
Lys Glu Asn Lys Arg Gln Leu Ser Ser Ser Ser Gly Asn Thr Asp Thr		
1250	1255	1260
Gln Ala Asp Glu Asp Glu Arg Ala Gln Glu Ser Gln Ile Asp Phe Leu		
1265	1270	1275
Asn Ser Val Ile Val Asp Leu Gln Arg Lys Asn Gln Asp Leu Lys Met		
1285	1290	1295
Lys Val Glu Met Met Ser Glu Ala Ala Leu Asn Gly Asn Gly Asp Asp		
1300	1305	1310
Leu Asn Asn Tyr Asp Ser Asp Asp Gln Glu Lys Gln Ser Lys Lys Lys		
1315	1320	1325
Pro Arg Leu Phe Cys Asp Ile Cys Asp Cys Phe Asp Leu His Asp Thr		
1330	1335	1340
Glu Asp Cys Pro Thr Gln Ala Gln Met Ser Glu Asp Pro Pro His Ser		
1345	1350	1355
Thr His His Gly Ser Arg Gly Glu Glu Arg Pro Tyr Cys Glu Ile Cys		
1365	1370	1375
Glu Met Phe Gly His Trp Ala Thr Asn Cys Asn Asp Asp Glu Thr Phe		
1380	1385	1390

&lt;210&gt; 815

&lt;211&gt; 647

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 815

ccacgcgtcc	gcctcccgtt	ccctcttccg	cttgcgctgc	cgcaggacca	tggccaacct	60
ggagcgacc	ttcatcgcca	tcaagccgga	cggcgtgcag	cgcggcctgg	tgggcgagat	120
catcaagcgc	ttcagacaga	agggattccg	cctcgtggcc	atgaagttcc	tccgggcctc	180
tgaagaacac	ctgaagcagc	actacattga	cctgaaagac	cgaccattct	tccctgggct	240
ggtgaagtac	atgaactcag	ggccggttgt	ggccatggtc	tgggaggggc	tgaacgtggt	300
gaagacaggc	cgagtgatgc	ttggggagac	caatccagca	gattcaaagc	caggcaccat	360
tcgtggggac	ttctgcattc	aggttggcag	gaacatcatt	catggcagtg	attcagtaaa	420
aagtgcctgaa	aaagaaatca	gcctatgggt	taagcctgaa	gaactgggtg	actacaagtc	480
ttgtgctcat	gactgggtct	atgaataaga	ggtggacaca	acagcagtct	ccttcagcac	540
ggcgtgggtg	gtccctggac	acagctcttc	attccattga	cttagaggca	acaggattga	600
tcattctttt	atagagcata	tttgccaata	aagcttttgg	aagccgg		647

<210> 816  
 <211> 152  
 <212> PRT  
 <213> Homo Sapiens

<400> 816  
 Met Ala Asn Leu Glu Arg Thr Phe Ile Ala Ile Lys Pro Asp Gly Val  
 1 5 10 15  
 Gln Arg Gly Leu Val Gly Glu Ile Ile Lys Arg Phe Glu Gln Lys Gly  
 20 25 30  
 Phe Arg Leu Val Ala Met Lys Phe Leu Arg Ala Ser Glu Glu His Leu  
 35 40 45  
 Lys Gln His Tyr Ile Asp Leu Lys Asp Arg Pro Phe Phe Pro Gly Leu  
 50 55 60  
 Val Lys Tyr Met Asn Ser Gly Pro Val Val Ala Met Val Trp Glu Gly  
 65 70 75 80  
 Leu Asn Val Val Lys Thr Gly Arg Val Met Leu Gly Glu Thr Asn Pro  
 85 90 95  
 Ala Asp Ser Lys Pro Gly Thr Ile Arg Gly Asp Phe Cys Ile Gln Val  
 100 105 110  
 Gly Arg Asn Ile Ile His Gly Ser Asp Ser Val Lys Ser Ala Glu Lys  
 115 120 125  
 Glu Ile Ser Leu Trp Phe Lys Pro Glu Glu Leu Val Asp Tyr Lys Ser  
 130 135 140  
 Cys Ala His Asp Trp Val Tyr Glu  
 145 150